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HAOSZ53	1051246	764	2 - 403	2939	Ala-3 to Arg-8, Asp-48 to Gly-64, Asp-101 to Ser-111.	L0764: 1, L0773: 1, L0767: 1, L0387: 1, L0649: 1, L0804: 1, L0606: 1, L0661: 1, L0807: 1, L0527: 1, L0657: 1, L0659: 1, L0526: 1, L0518: 1, L0783: 1, L0809: 1, L0529: 1, L0532: 1, S0428: 1, H0701: 1, S0374: 1, L0438: 1, L0352: 1, H0593: 1, H0690: 1, H0682: 1, H0660: 1, S0328: 1, H0710: 1, H0214: 1, S0037: 1, S3014: 1, L0748: 1, L0751: 1, L0757: 1, S0031: 1, H0444: 1, S0436: 1, L0485: 1, L0608: 1, L0593: 1, L0594: 1, S0026: 1, H0136: 1, S0192: 1 and H0677: 1.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777

HSODPI4	1051256	765	130 - 549	2940	Ala-10 to His-29.	H0686: 1, H0656: 1, H0484: 1, S0420: 1, S0356: 1, S6016: 1, H0592: 1, H0333: 1, H0427: 1, S0474: 1, H0546: 1, H0081: 1, H0050: 1, L0163: 1, H0594: 1, H0267: 1, H0124: 1, H0135: 1, H0412: 1, H0056: 1, H0059: 1, H0494: 1, H0509: 1, H0633: 1, L0521: 1, H0547: 1, S0126: 1, S0328: 1, S0330: 1, S0380: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0748: 1, L0750: 1, L0731: 1, L0596: 1, H0665: 1, S0276: 1 and H0543: 1.	H0596: 1, H0046: 1, H0032: 1 and H0595: 1.	2q23-q31	100690, 120180, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600.
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HUSGQ45	1051410	767	3 - 527	2942	Arg-17 to Gln-24, Tyr-39 to Tyr-47, Arg-50 to Leu-57, Lys-59 to Asn-66, Asn-78 to Val-91, Ser-94 to Ser-133, Thr-139 to Lys-175.		L0766: 4, H0090: 3, H0266: 2, H0529: 2, L0803: 2, L0774: 2, L0754: 2, L0747: 2, L0779: 2, L0759: 2, S0114: 1, H0583: 1, H0638: 1, S0356: 1, S0376: 1, H0676: 1, S0410: 1, H0580: 1, H0619: 1, S0222: 1, H0318: 1, H0373: 1, S0003: 1, H0328: 1, H0040: 1, H0616: 1, H0412: 1, L0772: 1, L0800: 1, L0789: 1,	

HLDRA54	1051437	768	263 - 676	2943	Lys-46 to Gly-63, Ala-75 to Ser-82, Gly-87 to Thr-94, Arg-121 to Gly-126.	L0664: 1, H0144: 1, H0689: 1, H0682: 1, H0672: 1, H0539: 1, S0378: 1, L0751: 1, L0745: 1, L0749: 1, L0750: 1, L0731: 1, L0758: 1, L0593: 1, S0242: 1 and S0194: 1, S0360: 10, S0440: 7, L0794: 7, L0662: 6, H0373: 5, L0666: 5, L0665: 5, H0423: 5, S0358: 4, H0486: 4, L0519: 4, L0663: 4, H0659: 4, S0330: 4, L0731: 4, H0422: 4, H0657: 3, L0471: 3, H0687: 3, H0553: 3, H0551: 3, L0598: 3, L0500: 3, L0770: 3, L0803: 3, L0775: 3, L0805: 3, L0659: 3, L0809: 3, H0710: 3, L0779: 3, L0777: 3, S0218: 2, H0341: 2, H0669: 2, H0662: 2, S0420: 2, H0580: 2, S0222: 2, T0039: 2, H0013: 2, H0251: 2, H0046: 2, H0457: 2,	3q13.3-q24	106165, 117700, 117700, 126451, 169600, 180380, 180380, 180380, 180380, 276902, 600882, 601199, 601199, 601199, 601682
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HNOJR48	1051533	769	34 - 1377	2944				S0194: 1, H0542: 1, H0543: 1, S0384: 1 and H0506: 1.	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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HKIXH35	1051883	770	2 - 994	2945					Lys-7 to Glu-27, Ser-48 to Gln-53, Gln-58 to Pro-69, Ala-84 to Tyr-93, Ala-114 to Leu-127, Ser-173 to Arg-180, Met-188 to Pro-193, Pro-200 to Leu-205, Ile-228 to Asp-233, Gln-271 to Cys-281, Glu-289 to Cys-304.	L0748: 13, L0758: 5, L0749: 4, L0439: 3, H0441: 2, H0052: 2, H0090: 2, L0774: 2, L0775: 2, L0517: 2, L0666: 2, L0740: 2, L0731: 2, L0759: 2, S0134: 1, L0415: 1, H0318: 1, H0327: 1, H0563: 1, S0050: 1, H0594: 1, H0266: 1, H0252: 1, H0644: 1, H0135: 1, H0616: 1, H0264: 1, S0438: 1, L0369: 1, L0763: 1,		

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HHEBJ92	1051903	771	67 - 2094	2946		His-152 to Lys-160, Gly-276 to Ser-281, Ser-376 to Asp-383, Arg-389 to Gly-400, Ala-512 to Ser-529, Asp-576 to Thr-581, Gly-619 to Asp-624.	AR089: 8, AR053: 6, AR060: 6, AR096: 5, AR039: 5, AR055: 4, AR104: 4, AR033: 4, AR061: 2, AR052: 0 H0717: 14, H0703: 14, H0699: 9, H0716: 8, H0685: 7, H0730: 7, H0688: 6, H0729: 5, H0687: 5, H0622: 4, H0424: 4, H0684: 4, H0670: 4, S0356: 3, S0376: 3, H0728: 3, L0163: 3, H0615: 3, H0039: 3, H0494: 3, H0724: 3, H0689: 3, H0683: 3, H0709: 3, H0694: 3, L0751: 3, H0624: 2, H0171: 2, H0686: 2, H0713: 2, H0663: 2, S0358: 2, H0722: 2, H0036: 2, H0100: 2, H0695: 2, H0725: 2, H0723: 2,	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975	

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HPTGB84	1051953	772	793 - 200	2947	Phe-59 to Glu-68, Lys-105 to Gly-111.			H0660: 3, S0358: 2, L0755: 2, L0759: 2, H0624: 1, S0040: 1, S0342: 1, H0484: 1, H0638: 1, H0550: 1, H0486: 1, H0427: 1, H0706: 1, S0010: 1, S0182: 1, H0012: 1, H0405: 1, H0673: 1, H0488: 1, H0059: 1, T0042: 1, H0494: 1, S0150: 1, H0647: 1, S0144: 1, L0772: 1, L0766: 1, H0520: 1, H0547: 1, H0435: 1, H0214: 1, S3012: 1, L0750: 1, L0777: 1, L0758: 1, H0445: 1, L0601: 1 and S0276: 1.			
HVCCD05	1051983	773	3 - 968	2948				H0666: 440, H0660: 3, H0309: 1, L0471: 1, H0328: 1, H0383: 1, L0769: 1, L0789: 1 and S0152: 1.	I7q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954,	

HPYSC40	1052158	774	2 - 583	2949	Ile-1 to Pro-10, Pro-36 to Glu-43, Arg-92 to Cys-98, Glu-106 to Lys-115, Pro-174 to Leu-179.	L0751: 11, L0777: 9, L0809: 6, H0100: 4, H0112: 3, L0783: 3, L0747: 3, H0644: 2, H0670: 2, L0755: 2, S0040: 1, H0013: 1, H0031: 1, L0794: 1, H0144: 1 and L0759: 1.	9q34	602403 125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
HDDMT56	1052261	775	155 - 844	2950	Pro-8 to Asp-23, Leu-27 to Ser-38, Thr-40 to Arg-69, Arg-73 to Asp-97, Asp-108 to Asp-126, Glu-135 to Ile-159, Pro-176 to Ala-181, Lys-184 to Asp-192, Val-202 to Arg-210, Thr-215 to His-221.	H0641: 1, L0775: 1 and H0659: 1.		
HVVAW02	1052553	776	2 - 652	2951	Ala-1 to Ala-8, Pro-26 to Tyr-32, Gly-48 to Pro-53, Asp-132 to Gly-137, Val-139 to Leu-144, Lys-165 to Gly-171, Ser-191 to Ala-198.	S0358: 6, L0748: 5, L0777: 5, H0171: 4, H0341: 4, S0408: 4, H0597: 4, H0620: 4, L0754: 4, L0749: 4, S0360: 3, H0596: 3, H0545: 3, H0494: 3, S0210: 3, L0769: 3, S0374: 3, H0659: 3,	7q21.1	129900, 154276, 171050, 171060, 602136, 602136, 602136, 602447

S0040: 2, H0657: 2, H0661: 2, S0376: 2, S0007: 2, S0045: 2, S0046: 2, S0222: 2, H0431: 2, H0013: 2, H0530: 2, H0014: 2, H0266: 2, H0328: 2, H0644: 2, H0100: 2, L0771: 2, L0662: 2, L0803: 2, L0438: 2, H0547: 2, S0126: 2, S0330: 2, L0743: 2, L0439: 2, L0751: 2, H0445: 2, S0026: 2, S0276: 2, S0196: 2, H0265: 1, T0049: 1, S0218: 1, H0656: 1, H0638: 1, S0356: 1, S0444: 1, S0410: 1, H0580: 1, S0132: 1, H0393: 1, S0300: 1, H0586: 1, L0622: 1, H0486: 1, T0109: 1, S0280: 1, H0599: 1, S0010: 1, S0049: 1, H0204: 1, H0327: 1, H0123: 1, H0051: 1, H0275: 1, H0083: 1, H0629: 1, H0271: 1, H0188: 1, H0290: 1.					
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HOGCS42	1052557	777	223 - 852	2952	Gly-156 to Met-161, Cys-186 to Lys-197.	AR039: 7, AR052: 6, AR089: 5, AR033: 4, AR104: 3, AR053: 3, AR096: 3, AR055: 3, AR061: 3, AR060: 2 S0358: 15, H0622: 15, S0354: 14, S0360: 11, H0435: 11, S0356: 9, H0039: 9, L0666: 9, L0751: 9, H0553: 8, H0506: 8, H0689: 7, L0748: 7, H0661: 6, L0659: 6, L0665: 6, S0376: 5, L0743: 5, H0484: 4, H0483: 4, H0059: 4, L0764: 4, L0771: 4, L0662: 4, L0809: 4, S0330: 4, H0615: 3, H0688: 3, H0040: 3, L0763: 3, L0364: 3, L0774: 3, L0663: 3, H0683: 3, H0670: 3, H0672: 3, L0750: 3, L0731: 3, H0663: 2, H0549: 2, H0046: 2, H0014: 2, H0124: 2, H0494: 2, S0450: 2, L0374: 2, L0765: 2, L0804: 2, L0378: 2, L0653: 2,		
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HAZAA59	1052593	778	29 - 745	2953			S0358: 4, L0752: 4, H0012: 3, H0266: 3, L0740: 3, L0731: 3, H0615: 2, L0772: 2, L0776: 2, L0565: 2, L0605: 2, L0608: 2, L0362: 2, H0423: 2, H0556: 1, S0114: 1, S0134: 1, H0341: 1, H0255: 1, H0664: 1, H0638: 1, S0356: 1, H0676: 1, H0441: 1, H0392: 1, H0613: 1, H0333: 1, H0632: 1, L0021: 1, S0049: 1, H0251: 1, H0327: 1, H0572: 1, L0471: 1, H0271: 1, H0252: 1, T0023: 1, H0135: 1, H0591: 1, H0560: 1, S0150: 1, L0637: 1, L3904: 1, L0764: 1, L0364: 1, L0803: 1, L0661: 1, L0647: 1, L0790: 1, L0663: 1, H0144: 1, S0374: 1, H0547: 1, H0690: 1,			

								H0670: 1, H0672: 1, H0539: 1, S0406: 1, H0555: 1, L0356: 1, L0742: 1, L0748: 1, L0746: 1, L0779: 1, L0758: 1, H0445: 1 and S0026: 1.			
HPDRP02	1052728	779	248 - 670	2954		Pro-12 to Asp-20, Leu-30 to Glu-37, Lys-62 to Asp-70, Met-99 to Asp-109, Ala-115 to Asn-122, Gly-135 to Asp-141.		H0619: 3, H0662: 2, H0135: 1, H0593: 1 and H0658: 1.			
HMALJ21	1052874	780	623 - 1033	2955		Gly-9 to Thr-24.		L0789: 4, H0660: 2, S0278: 1, H0250: 1, T0010: 1, H0163: 1, H0551: 1, L0657: 1, L0777: 1, L0755: 1 and L0731: 1.			
HLYAR61	1053037	781	120 - 431	2956		Gln-17 to Gly-27, Glu-39 to Asp-52, Lys-79 to Asn-84.		H0341: 3, H0580: 2, S0049: 2, S0422: 2, T0049: 1, H0656: 1, S0222: 1, H0632: 1, H0486: 1, H0581: 1, H0266: 1, H0494: 1, S0438: 1, H0520: 1, H0659: 1, H0704: 1, S0406: 1, L0754: 1, L0747: 1, L0750: 1, L0752: 1, L0757: 1,			

HLTCQ80	1053164	782	2 - 562	2957		H0445: 1 and S0276: 1. H0616: 5, L0758: 4, L0362: 4, H0529: 3, L0803: 3, L0809: 3, H0592: 2, L0804: 2, L0527: 2, L0665: 2, H0547: 2, L0439: 2, L0754: 2, L0777: 2, L0485: 2, S0114: 1, H0657: 1, H0341: 1, S0420: 1, S0442: 1, S0358: 1, S0376: 1, H0675: 1, H0580: 1, H0632: 1, S0414: 1, H0013: 1, H0706: 1, H0327: 1, H0123: 1, H0428: 1, H0622: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, S0450: 1, S0438: 1, H0647: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0764: 1, L0794: 1, L0776: 1, L0659: 1, L0526: 1, L0783: 1, L0666: 1, L0663: 1, L0438: 1, H0690: 1, H0659: 1, H0670: 1, H0672: 1, H0710: 1, H0436: 1,	8q24	131950, 153840, 600669, 601282, 601455, 602232
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HDTDU67	1053171	783	485 - 697	2958	Ser-9 to Gln-19.		L0362: 6, H0486: 3, S0406: 3, L0809: 2, S0434: 2, H0624: 1, H0663: 1, S0376: 1, S0360: 1, H0329: 1, S0046: 1, H0586: 1, H0150: 1, L0483: 1, H0096: 1, H0124: 1, H0591: 1, S0422: 1, L0598: 1, L0369: 1, L0763: 1, L0638: 1, L0521: 1, L0662: 1, L0766: 1, L0803: 1, L0776: 1, L0655: 1, L0657: 1, L0659: 1, L0793: 1, L0666: 1, L0665: 1, L0565: 1, H0520: 1, H0519: 1, H0684: 1, H0648: 1, H0521: 1, H0696: 1, L0747: 1, L0779: 1, L0777: 1, L0752: 1, L0758: 1, L0608: 1, H0506: 1 and H0352: 1.			
HMABL01	1053173	784	210 - 1289	2959	Ala-1 to Arg-6, Gly-45 to Gly-51, Ser-53 to Lys-69, Asp-89 to Ser-100,		L0493: 10, L0748: 6, L0601: 5, H0615: 4, L0741: 4, H0052: 3, L0774: 3, L0776: 3,			

Pro-106 to Leu-117, His-119 to Gly-124, Asp-166 to Ser-176, Ser-293 to Cys-301, Pro-306 to Cys-313, Ser-317 to Gln-327, Arg-332 to Pro-341.	L0754: 3, L0749: 3, S0222: 2, H0318: 2, H0620: 2, S0422: 2, L0500: 2, L0769: 2, L0766: 2, L0375: 2, L0514: 2, L0793: 2, S0126: 2, S6024: 1, H0484: 1, H0125: 1, H0393: 1, H0586: 1, H0497: 1, H0331: 1, H0574: 1, L0622: 1, H0013: 1, T0082: 1, S0010: 1, L0563: 1, H0597: 1, L0471: 1, H0012: 1, H0356: 1, H0328: 1, H0428: 1, H0039: 1, T0006: 1, H0424: 1, T0067: 1, H0487: 1, H0059: 1, S0144: 1, S0426: 1, L0770: 1, L5575: 1, L0768: 1, L0794: 1, L0499: 1, L0497: 1, L0806: 1, L0805: 1, L0783: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0658: 1,					
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HACMU05	1053236	785	1717 - 2631	2960	His-10 to Ala-18, Lys-77 to Glu-86, Gln-137 to Trp-143, Gln-256 to Asp-263, Glu-276 to Arg-285.	S0032: 1, L0740: 1, L0755: 1, L0758: 1, H0444: 1, L0596: 1 and S0192: 1. H0656: 6, H0521: 6, H0543: 4, S0002: 3, L0766: 3, H0664: 2, H0581: 2, H0488: 2, L0771: 2, L0767: 2, L0794: 2, L0789: 2, H0593: 2, H0436: 2, L0748: 2, L0439: 2, H0542: 2, H0423: 2, H0265: 1, H0685: 1, H0657: 1, H0663: 1, H0402: 1, H0125: 1, S0418: 1, S0354: 1, S0358: 1, H0637: 1, S0046: 1, S0278: 1, H0611: 1, H0586: 1, H0486: 1, S0280: 1, L0021: 1, H0457: 1, H0373: 1, H0083: 1, H0622: 1, H0553: 1, H0181: 1, S0036: 1, H0087: 1, H0264: 1, H0413: 1, H0623: 1, H0059: 1, H0429: 1, H0647: 1, S0144: 1, H0529: 1, L0639: 1,	17q25	114290, 138033, 162100, 170500, 170500, 170500, 180860, 264470
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HOVDF79	1053369	786	3 - 587	2961	Ala-8 to Gly-15, Gln-44 to Asn-52, Gly-62 to Ser-68.		H0615: 1, H0428: 1, L0638: 1, L0764: 1, L0659: 1, L0438: 1, L0352: 1, H0648: 1, L0439: 1 and L0731: 1.			
HVVBJS4	1053547	787	2 - 610	2962			H0135: 13, H0052: 9, H0539: 8, H0521: 8, H0013: 7, L0769: 7, L0666: 7, L0750: 7, L0599: 7, S0007: 6, H0619: 6, H0333: 6, H0486: 6, S0010: 6, H0012: 6, L0766: 6, H0144: 6, H0593: 6, L0745: 6, H0656: 5, H0197: 5, H0024: 5, H0428: 5, H0100: 5, L0520: 5, L0776: 5, L0655: 5, L0517: 5, L0663: 5, H0670: 5,	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477	

			H0522: 5, S0044: 5, L0744: 5, L0747: 5, L0779: 5, H0423: 5, S0360: 4, L0665: 4, H0547: 4, H0519: 4, S0126: 4, H0555: 4, H0436: 4, S0028: 4, L0439: 4, L0740: 4, L0758: 4, H0445: 4, H0255: 3, H0069: 3, H0618: 3, H0581: 3, H0457: 3, H0150: 3, H0050: 3, H0687: 3, H0622: 3, H0424: 3, H0617: 3, H0087: 3, T0067: 3, L0662: 3, L0649: 3, L0774: 3, L0659: 3, L0530: 3, S0374: 3, L0438: 3, H0672: 3, S0380: 3, L0751: 3, L0759: 3, L0596: 3, L0589: 3, H0506: 3, S0040: 2, S0114: 2, T0049: 2, H0583: 2, H0657: 2, S0116: 2, S0212: 2, H0662: 2, H0402: 2, S0356: 2, S0045: 2, S0046: 2, H0369: 2, S0222: 2, H0586: 2,			
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HOFMU50	1053548	788	356 - 547	2963	Gln-36 to Leu-47, Glu-55 to Asn-64.	H0352: 1. H0415: 2, H0583: 1, H0123: 1, H0623: 1, H0518: 1 and L0779: 1.		
HE9MO38	1053585	789	2 - 268	2964	Pro-26 to Ala-33, Gly-68 to Gln-75.	H0254: 1, S0278: 1, L0764: 1, H0144: 1, S0424: 1 and H0506: 1.		
HOPJF55	1053725	790	3 - 698	2965	Glu-1 to Gly-11, Gln-83 to Asp-98, Glu-101 to Gln-110, Gln-112 to Gln-120, Thr-128 to Asn-133, Glu-135 to Gly-142, Asp-145 to Cys-153, His-160 to Cys-166.	L0747: 10, L0771: 8, H0333: 7, H0620: 6, H0545: 5, H0024: 5, H0551: 5, L0659: 5, L0665: 5, H0012: 4, L0769: 4, L0375: 4, S0126: 4, L0740: 4, L0754: 4, L0755: 4, L0759: 4, H0294: 3, S0045: 3, H0550: 3, L0471: 3, L0794: 3, H0689: 3, H0682: 3, L0749: 3, H0624: 2, H0171: 2, H0251: 2, H0081: 2, H0050: 2, H0252: 2, H0428: 2, H0124: 2, H0068: 2, L0637: 2, L0368: 2, L0792: 2, L0565: 2, L0779: 2, L0777: 2, L0757: 2, H0352: 2, H0170: 1, H0685: 1, S0356: 1, S0376: 1,	1p36.1-p35	116600, 118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 185470, 230350, 255800, 600975, 602771

						S0360: 1, S0046: 1, H0645: 1, H0549: 1, H0592: 1, H0586: 1, H0013: 1, L0021: 1, T0082: 1, H0544: 1, H0546: 1, H0041: 1, H0570: 1, H0123: 1, H0594: 1, H0328: 1, H0615: 1, H0553: 1, H0413: 1, H0100: 1, S0002: 1, L0762: 1, L0761: 1, L0772: 1, L0646: 1, L0764: 1, L0662: 1, L0767: 1, L0364: 1, L0806: 1, L0805: 1, L0629: 1, L0809: 1, L0789: 1, H0144: 1, H0684: 1, H0659: 1, S0330: 1, S0190: 1, S0037: 1, S3014: 1, S0028: 1, L0744: 1, L0780: 1, L0758: 1, H0343: 1 and H0008: 1.		
HAOTD13	1053746	791	2 - 808	2966		L0748: 22, L0751: 11, L0754: 11, L0740: 9, L0758: 9, H0659: 7, L0362: 6, H0052: 5, S0003: 5, L0769: 5, H0651: 5, L0747: 4,		

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	H0253: 1, S0010: 1, H0318: 1, H0581: 1, H0009: 1, H0123: 1, L0471: 1, H0014: 1, H0188: 1, H0328: 1, H0428: 1, T0023: 1, H0031: 1, H0553: 1, H0644: 1, H0313: 1, H0181: 1, H0617: 1, L0055: 1, H0673: 1, H0361: 1, H0087: 1, T0067: 1, H0433: 1, H0412: 1, H0494: 1, S0448: 1, S0210: 1, L0763: 1, L0371: 1, L0639: 1, L0637: 1, L0761: 1, L0772: 1, L0372: 1, L0645: 1, L0764: 1, L0771: 1, L0521: 1, L0662: 1, L0387: 1, L0650: 1, L0375: 1, L0806: 1, L0776: 1, L0655: 1, L0657: 1, L0783: 1, L0809: 1, L0529: 1, L0666: 1, L0664: 1, L0665: 1, H0689: 1, H0435: 1, H0670: 1, H0648: 1, H0539: 1, H0187: 1, S0028: 1.				
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HODCJ32	1053772	792	643 - 149	2967		Tyr-1 to Glu-8, Pro-51 to Thr-67, Val-85 to Ser-90, Pro-118 to Gly-128.	L0776: 4, L0756: 4, L0777: 4, L0749: 2, H0052: 1, H0565: 1, H0328: 1, L0770: 1, L0769: 1, L0761: 1, L0805: 1, L0659: 1, L0809: 1, L0787: 1, L0666: 1, L0665: 1, L0439: 1, L0751: 1, L0745: 1, L0747: 1, L0779: 1 and L0758: 1.			
HOCPT34	1053973	793	1 - 2355	2968		Ser-19 to Gly-26, Glu-46 to Gln-52, Pro-61 to Ser-66, Arg-71 to Leu-85, Tyr-99 to Tyr-105, Pro-107 to Gly-115, Leu-137 to Leu-147, Glu-175 to Leu-181, Ala-187 to Ser-196, Ile-200 to Trp-209, Ser-353 to Lys-367, Gly-388 to Ser-397, Thr-415 to Val-423.	L0438: 5, L0749: 4, H0266: 3, H0038: 3, L0803: 3, L0666: 3, L0777: 3, L0763: 2, H0547: 2, L0748: 2, L0759: 2, S0031: 2, L0591: 2, S0358: 1, S0376: 1, S0007: 1, S0045: 1, S0132: 1, S0222: 1, H0013: 1, S0010: 1, H0390: 1, H0052: 1, H0596: 1, H0046: 1, H0564: 1,	2q23-q31	100690, 120180, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321	

HFKHC64	1054015	794	1928 - 363	2969	Gly-6 to His-16, Arg-20 to Gly-41, Arg-115 to Asn-121, Phe-136 to Glu-144, Lys-152 to Glu-162, Glu-176 to Thr-182, Pro-205 to Gln-212, Lys-229 to Ala-235, Gly-310 to Trp-315, Val-328 to Thr-342.	Glu-459 to Cys-469, Gly-471 to Pro-481.	N0007: 1, H0201: 1, H0616: 1, H0551: 1, T0042: 1, H0561: 1, H0131: 1, H0529: 1, L0761: 1, L0641: 1, L0774: 1, L0776: 1, L0659: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, S0126: 1, H0660: 1, H0539: 1, H0579: 1, L0743: 1, L0439: 1, L0745: 1, L0747: 1, L0750: 1, S0260: 1 and L0366: 1.			107741, 113900, 122720, 122720, 126340, 126391, 134790, 160900, 164731, 173850, 191044, 207750, 248600, 258501, 600040, 600138
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					Pro-105 to Ala-123.	S0420: 2, H0599: 2, H0620: 2, H0617: 2, H0412: 2, H0100: 2, H0646: 2, H0520: 2, H0684: 2, L0588: 2, L0778: 1, H0484: 1, H0661: 1, S0360: 1, H0586: 1, H0427: 1, H0253: 1, H0581: 1, H0546: 1, H0009: 1, N0006: 1, H0172: 1, H0012: 1, H0188: 1, H0181: 1, H0606: 1, H0040: 1, H0059: 1, H0561: 1, S0002: 1, L0503: 1, L0640: 1, L0803: 1, L0652: 1, L0654: 1, L0790: 1, L0664: 1, L0565: 1, H0682: 1, H0658: 1, H0670: 1, H0660: 1, H0539: 1, L0744: 1, L0439: 1, L0754: 1, L0747: 1, L0750: 1, L0777: 1, L0731: 1, S0260: 1, L0593: 1, H0506: 1 and H0352: 1.		
HNBVO53	1054122	796	2 - 2332	2971	His-4 to Tyr-10, Ile-58 to Leu-63, Pro-65 to Val-74,	L0794: 5, H0542: 5, S0358: 3, H0013: 2, H0618: 2, H0617: 2,		

					Leu-122 to Ser-132, Gln-134 to Leu-144, Pro-155 to Ser-166.	L0769: 2, L0764: 2, L0662: 2, L0803: 2, H0670: 2, L0756: 2, L0595: 2, L0361: 2, H0556: 1, S0040: 1, L0785: 1, H0341: 1, H0661: 1, H0662: 1, H0402: 1, S0420: 1, H0370: 1, T0040: 1, T0114: 1, H0253: 1, H0581: 1, H0041: 1, H0687: 1, H0604: 1, H0213: 1, H0644: 1, H0181: 1, H0087: 1, H0412: 1, H0413: 1, H0100: 1, S0382: 1, H0509: 1, S0210: 1, L0763: 1, L0761: 1, L0372: 1, L0641: 1, L0649: 1, L0386: 1, L0809: 1, L0789: 1, L0663: 1, H0693: 1, H0658: 1, H0672: 1, H0539: 1, S0027: 1, L0757: 1, L0758: 1, L0604: 1, H0543: 1, H0506: 1 and H0352: 1.		
HOPKF84	1054155	797	395 - 1168	2972	Ser-11 to Cys-17, Glu-39 to Tyr-49, Glu-98 to Glu-104,	L0766: 5, L0804: 3, L0105: 2, L0803: 2, L0788: 2, H0659: 2,		

						Gly-122 to Ser-128, Tyr-154 to Val-163, Glu-170 to Thr-195, Leu-213 to Gly-218, Lys-229 to Phe-236, Ser-241 to Ser-248.	L0759: 2, H0624: 1, H0657: 1, H0661: 1, H0601: 1, H0266: 1, H0687: 1, H0032: 1, H0413: 1, S0450: 1, H0509: 1, L0763: 1, L0638: 1, L0761: 1, L0662: 1, L0650: 1, L0805: 1, L0659: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0684: 1, L0745: 1, L0747: 1, L0750: 1, L0731: 1, L0758: 1, H0595: 1, S0026: 1, H0543: 1, S0424: 1 and S0456: 1.			
HCQDQ11	1054196	798	109 - 174	2973			H0594: 11, H0596: 8, S0282: 5, S0260: 5, S0194: 5, H0543: 5, S0278: 2, H0600: 2, H0592: 2, H0598: 2, S0344: 2, H0595: 2, S0356: 1, H0438: 1, H0574: 1, H0599: 1, S0346: 1, H0318: 1, H0597: 1, S0388: 1, H0316: 1, S0390: 1 and H0542: 1.	17p13.3	113721, 247200, 600059, 601545	
HTFML39	1054230	799	1 - 873	2974	Ala-23 to Gly-49,		H0124: 2, H0618: 1,			

					Ser-106 to Pro-115, Gly-160 to Lys-167, Thr-183 to Gly-189, Glu-196 to Gly-211, Ala-218 to Gly-224, Val-257 to Leu-269.	H0123: 1, H0012: 1, H0083: 1, H0428: 1, H0593: 1, L0740: 1 and S0424: 1.		
HOGCR32	1054235	800	3 - 137	2975	Pro-3 to Lys-13, Thr-39 to Ile-45.	H0435: 2		
HFCDL60	1054288	801	1158 - 241	2976	Glu-2 to Thr-7, Arg-64 to Lys-72, Glu-77 to Leu-83, Arg-93 to Ser-102, Ile-118 to Gln-123, Ser-152 to Gly-158, Gln-276 to Ser-282.	AR089: 7, AR104: 6, AR096: 6, AR053: 4, AR039: 4, AR060: 3, AR033: 1, AR061: 1, AR055: 0 L0777: 9, H0556: 8, H0620: 7, L0766: 7, H0521: 7, L0747: 6, S0360: 5, H0250: 5, L0751: 5, L0794: 4, L0754: 4, L0591: 4, S0354: 3, S0358: 3, S0278: 3, H0553: 3, S0144: 3, L0769: 3, L0773: 3, H0547: 3, S0404: 3, S3014: 3, L0743: 3, L0744: 3, L0439: 3, L0752: 3, L0731: 3, H0445: 3, S0218: 2, H0580: 2, S0132: 2, H0393: 2, H0550: 2, S0222: 2.	15q23-q25	118485, 151670, 231680, 272800, 272800, 272800, 276700, 600374, 601780

H0486: 2, H0635: 2, H0575: 2, H0590: 2, H0251: 2, H0309: 2, H0457: 2, H0150: 2, H0050: 2, H0083: 2, H0266: 2, H0288: 2, H0135: 2, H0264: 2, T0041: 2, H0561: 2, L0761: 2, L0771: 2, L0768: 2, L0649: 2, L0804: 2, L0651: 2, L0518: 2, L0789: 2, L0666: 2, H0144: 2, L0565: 2, L0438: 2, S0330: 2, S0037: 2, S0027: 2, L0740: 2, L0745: 2, L0758: 2, S0434: 2, L0581: 2, L0593: 2, L0595: 2, H0542: 2, H0543: 2, T0002: 1, S0040: 1, H0717: 1, H0657: 1, H0656: 1, H0341: 1, H0483: 1, H0255: 1, H0305: 1, H0589: 1, S0420: 1, H0676: 1, H0208: 1, S0045: 1, S0046: 1, H0370: 1, H0392: 1, H0592: 1, H0587: 1, T0040: 1.					
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			S0280: 1, H0156: 1, H0706: 1, H0318: 1, H0310: 1, H0231: 1, H0545: 1, H0009: 1, H0565: 1, H0123: 1, H0012: 1, H0047: 1, H0197: 1, H0024: 1, H0057: 1, T0010: 1, H0267: 1, H0252: 1, H0688: 1, H0617: 1, S0364: 1, H0124: 1, S0036: 1, H0040: 1, H0488: 1, H0412: 1, H0059: 1, H0100: 1, H0494: 1, H0560: 1, S0448: 1, S0440: 1, H0131: 1, H0130: 1, H0633: 1, H0647: 1, S0344: 1, L0770: 1, L0643: 1, L0645: 1, L0764: 1, L0521: 1, L0364: 1, L0381: 1, L0774: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0659: 1, L0809: 1, L0663: 1, L0664: 1, H0699: 1, S0374: 1, H0435: 1, H0648: 1, S0152: 1, S0044: 1, H0134: 1,					
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							S0406: 1, S0032: 1, L0749: 1, L0756: 1, L0779: 1, L0759: 1, S0260: 1, H0665: 1, H0136: 1, H0423: 1, S0424: 1 and H0506: 1.			
HODEC13	1054400	802	1599 - 880	2977			H0208: 2, H0615: 2, S0001: 1, H0351: 1, H0545: 1, H0081: 1, H0424: 1 and H0334: 1.			
HUSYA18	1054451	803	689 - 138	2978			L0749: 15, L0748: 9, L0758: 9, L0766: 8, L0770: 7, H0266: 6, L0775: 6, L0655: 6, L0731: 6, L0362: 6, S0444: 5, L0764: 5, L0809: 5, S0358: 4, H0637: 4, L0777: 4, L0752: 4, H0305: 3, S0440: 3, L0646: 3, L0773: 3, S0406: 3, L0439: 3, L0740: 3, L0754: 3, L0755: 3, L0759: 3, H0341: 2, S0420: 2, S0356: 2, S0360: 2, S6028: 2, H0551: 2, S0438: 2, L0761: 2, L0373: 2, L0800: 2, L0768: 2, L0774: 2, L0666: 2,	13q12.3- q13.1	157900, 600185, 600185, 600631	

L0665: 2, S0378: 2, S0380: 2, L0750: 2, L0592: 2, H0423: 2, H0624: 1, H0685: 1, H0664: 1, S0418: 1, S0476: 1, H0393: 1, H0351: 1, S0222: 1, H0574: 1, L0623: 1, H0486: 1, H0156: 1, T0082: 1, H0036: 1, S0010: 1, H0318: 1, H0309: 1, H0569: 1, S0003: 1, L0055: 1, H0673: 1, S0036: 1, H0412: 1, H0413: 1, S0038: 1, L0351: 1, T0041: 1, H0494: 1, H0714: 1, L0369: 1, L0520: 1, L0763: 1, L0769: 1, L0772: 1, L0372: 1, L0645: 1, L0521: 1, L0767: 1, L0364: 1, L0794: 1, L0649: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0653: 1, L4669: 1, L0659: 1, L0792: 1, L5286: 1, L0663: 1, L0664: 1, S0374: 1, H0689: 1,					
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HOCON42	1054527	804	2000 - 1755	2979	Glu-16 to Gly-33, Lys-63 to Lys-71, Asp-77 to Pro-82.	H0682: 1, H0684: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, H0710: 1, H0521: 1, S0013: 1, H0696: 1, H0436: 1, S0028: 1, L0747: 1, L0786: 1, S0436: 1, L0591: 1, L0599: 1, S0026: 1, H0543: 1, H0422: 1 and S0424: 1.		
						S0250: 5, L0764: 4, H0457: 3, L0789: 3, H0543: 3, H0650: 2, L0717: 2, H0594: 2, H0622: 2, L0769: 2, L0800: 2, L0794: 2, L0657: 2, L0809: 2, H0670: 2, H0521: 2, H0445: 2, H0136: 2, H0542: 2, H0656: 1, H0484: 1, H0255: 1, S0354: 1, S0358: 1, S0360: 1, H0550: 1, H0370: 1, H0597: 1, H0081: 1, H0012: 1, H0620: 1, H0266: 1, H0553: 1, S0364: 1, H0063: 1, H0488: 1, H0412: 1, H0059: 1,		

								H0494: 1, H0561: 1, H0509: 1, S0144: 1, S0344: 1, S0210: 1, S0002: 1, L0770: 1, L0667: 1, L0772: 1, L0771: 1, L0662: 1, L0803: 1, L0774: 1, L0806: 1, L0655: 1, L0659: 1, L0636: 1, L0783: 1, L0663: 1, L0664: 1, L0665: 1, H0519: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, L0602: 1, H0436: 1, L0779: 1, S0031: 1, L0595: 1 and S0424: 1.		
HKMNH37	1054550	805	22 - 1206	2980	Ser-24 to Thr-31, Pro-164 to Asn-173, Val-185 to Arg-192, Gln-199 to Gly-204, Lys-250 to Gly-258, Gln-265 to Ser-277, Gln-322 to Gly-327, Ala-334 to Ser-343, Pro-349 to Cys-356.		L0777: 5, L0748: 4, S0007: 2, L0764: 2, L0809: 2, L0750: 2, L0759: 2, H0669: 1, H0730: 1, H0431: 1, L0022: 1, H0581: 1, H0057: 1, H0271: 1, H0428: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0805: 1, L0655: 1, L0657: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1,			

HPDWP21	1054662	806	63 - 797	2981	Lys-26 to Glu-41, Lys-149 to Ala-156, Arg-214 to Lys-225, Ile-229 to Lys-235, Glu-240 to His-245.	L0743: 1, L0740: 1, L0751: 1, L0747: 1, L0756: 1, H0445: 1, L0599: 1, H0423: 1, L0698: 1 and H0352: 1, L0659: 10, L0439: 5, L0378: 4, L0748: 4, L0777: 4, H0657: 3, L0662: 3, L0655: 3, L0665: 3, S0428: 3, H0658: 3, S0434: 3, H0618: 2, S0474: 2, S0049: 2, H0309: 2, H0024: 2, H0412: 2, S0002: 2, S0426: 2, L0646: 2, L0771: 2, L0774: 2, L0657: 2, L0664: 2, H0696: 2, S0027: 2, L0588: 2, L0605: 2, L0601: 2, H0556: 1, T0002: 1, H0716: 1, S0116: 1, H0661: 1, H0662: 1, S0418: 1, S0442: 1, S0444: 1, H0208: 1, S0132: 1, S0476: 1, H0619: 1, H0351: 1, S6022: 1, H0549: 1, S0220: 1, H0455: 1, H0427: 1, S0280: 1,		
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HOGCS52	1054677	807	21 - 1388	2982	Met-31 to Arg-37,	H0706: 1, T0071: 1, H0544: 1, H0546: 1, H0545: 1, N0006: 1, H0123: 1, H0057: 1, S0051: 1, H0188: 1, H0031: 1, L0055: 1, H0673: 1, H0708: 1, H0163: 1, H0090: 1, H0634: 1, H0087: 1, H0623: 1, H0059: 1, S0386: 1, H0633: 1, H0538: 1, H0695: 1, L0763: 1, L0769: 1, L0638: 1, L0639: 1, L5565: 1, L0667: 1, L0764: 1, L0650: 1, L0775: 1, L0375: 1, L0807: 1, L0542: 1, L0384: 1, L0666: 1, H0144: 1, H0519: 1, S0008: 1, H0660: 1, H0518: 1, H0521: 1, S0044: 1, H0436: 1, S0037: 1, S3014: 1, L0744: 1, L0740: 1, L0731: 1, L0757: 1, L0758: 1, S0031: 1, H0445: 1, S0194: 1, H0423: 1 and H0721: 1.	AR096: 52, AR039:
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Thr-157 to Arg-176, Gly-183 to Tyr-188, Leu-229 to Asp-234, Leu-275 to Lys-280, Thr-381 to Asn-386, Asp-424 to Arg-434.	49, AR089: 49, AR053: 43, AR060: 33, AR061: 20, AR055: 19, AR104: 18, AR033: 17 L0751: 8, L0754: 8, L0769: 6, L0803: 6, L0748: 6, H0100: 5, H0435: 5, L0439: 5, L0758: 5, L0665: 4, L0747: 4, L0749: 4, S0114: 3, H0619: 3, H0546: 3, H0457: 3, S0002: 3, L0637: 3, L0657: 3, H0658: 3, L0743: 3, L0777: 3, L0780: 3, H0445: 3, S0040: 2, H0255: 2, H0645: 2, S0278: 2, H0024: 2, H0416: 2, H0030: 2, H0553: 2, H0135: 2, H0649: 2, L0770: 2, L0804: 2, L0774: 2, L0805: 2, L0659: 2, H0659: 2, H0518: 2, H0555: 2, L0755: 2, L0757: 2, L0599: 2, L0603: 2, H0423: 2, H0265: 1, H0556: 1, L0460: 1, H0295: 1, S0218: 1
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H0583: 1, H0650: 1, S0212: 1, H0483: 1, H0402: 1, H0125: 1, S0418: 1, S0420: 1, S0356: 1, S0360: 1, S0046: 1, L0717: 1, H0261: 1, H0370: 1, H0391: 1, H0438: 1, H0486: 1, T0039: 1, H0250: 1, H0156: 1, L0021: 1, H0575: 1, T0082: 1, H0253: 1, S0474: 1, T0071: 1, H0581: 1, S0049: 1, H0052: 1, H0235: 1, H0150: 1, L0471: 1, H0620: 1, S0362: 1, S0388: 1, T0010: 1, H0594: 1, H0266: 1, H0188: 1, H0687: 1, H0292: 1, H0615: 1, H0688: 1, H0048: 1, H0424: 1, H0031: 1, H0644: 1, L0143: 1, H0181: 1, H0617: 1, L0455: 1, H0708: 1, H0163: 1, H0591: 1, H0551: 1, H0488: 1, H0646: 1, S0344: 1, I 0762: 1 I 0640: 1					
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HWMCK60	1054751	808	3 - 485	2983	Ser-46 to Ala-56,	L0638: 1, L0761: 1, L0772: 1, L0374: 1, L0764: 1, L0771: 1, L0648: 1, L0521: 1, L0662: 1, L0768: 1, L0794: 1, L0649: 1, L0386: 1, L0381: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0606: 1, L0518: 1, L0809: 1, L0789: 1, L0793: 1, L0666: 1, L0664: 1, S0052: 1, S0374: 1, L0438: 1, H0547: 1, H0593: 1, H0690: 1, H0682: 1, H0670: 1, H0660: 1, H0666: 1, S0330: 1, S0152: 1, H0696: 1, H0436: 1, L0745: 1, L0750: 1, L0779: 1, S0260: 1, S0434: 1, L0605: 1, L0595: 1, L0361: 1, H0653: 1, S0192: 1, S0194: 1, S0276: 1, H0422: 1, H0008: 1 and H0352: 1.	H0694: 23, L0777: 11,	
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Asp-85 to Ala-116, Gln-132 to Lys-140, Phe-143 to Leu-152.	L0747: 10, L0005: 9, L0755: 8, L0754: 7, L0731: 6, L0776: 5, L0758: 5, L0759: 5, H0141: 4, H0585: 4, S0360: 4, L0770: 4, L0771: 4, L0775: 4, S0374: 4, L0756: 4, L0763: 3, L0764: 3, L0766: 3, L0806: 3, L0751: 3, L0749: 3, H0668: 3, H0543: 3, H0295: 2, H0638: 2, S0222: 2, S0210: 2, L0662: 2, L0774: 2, L0783: 2, L0792: 2, H0144: 2, S0152: 2, S0406: 2, L0748: 2, L0750: 2, L0757: 2, H0542: 2, H0624: 1, H0171: 1, T0002: 1, H0294: 1, S0218: 1, S0430: 1, H0656: 1, H0341: 1, H0661: 1, H0228: 1, S0348: 1, S0376: 1, S0444: 1, S0408: 1, S0045: 1, S0278: 1, H0431: 1, H0586: 1, H0587: 1, H0497: 1, H0486: 1,				
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HWLOU33	1054790	809	3 - 401	2984			H0599: 1, H0196: 1, T0110: 1, H0327: 1, H0009: 1, L0157: 1, H0083: 1, H0375: 1, H0594: 1, H0188: 1, H0687: 1, S0003: 1, H0252: 1, H0428: 1, H0031: 1, H0553: 1, H0400: 1, H0591: 1, T0067: 1, H0264: 1, H0059: 1, S0386: 1, T0041: 1, H0494: 1, H0625: 1, S0438: 1, H0641: 1, H0646: 1, S0144: 1, S0344: 1, L0520: 1, L0769: 1, L0638: 1, L0761: 1, L0373: 1, L0768: 1, L0383: 1, L0666: 1, L0664: 1, H0547: 1, H0670: 1, S0328: 1, S0146: 1, H0436: 1, S3012: 1, L0744: 1, L0740: 1, L0752: 1, L0753: 1, H0445: 1, H0653: 1 and H0667: 1,		
							AR096: 3, AR052: 2, AR089: 2, AR060: 2, AR061: 1, AR033: 1, AR053: 1, AR055: 1,		

						AR039: 0, AR104: 0 S0444: 5, S0360: 4, S0408: 3, H0625: 3, H0436: 3, S0358: 2, H0641: 2, L0803: 2, S0374: 2, H0656: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0392: 1, H0427: 1, H0457: 1, H0538: 1, H0547: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0192: 1, H0423: 1 and H0422: 1.		
HKZBM58	1054812	810	33 - 584	2985	Leu-25 to Arg-30, Glu-41 to Thr-56, Met-74 to Asn-81, Tyr-108 to Thr-116, Asp-126 to Gly-131, Met-141 to Asp- 149, Pro-170 to Tyr-184.	L0748: 19, S0372: 12, L0747: 12, L0750: 9, S0408: 7, L0752: 7, L0731: 7, L0758: 7, H0031: 6, L0439: 6, L0740: 6, L0769: 5, L0757: 5, L0471: 4, L0065: 4, H0672: 4, H0543: 4, H0341: 3, H0318: 3, H0616: 3, H0413: 3, L0771: 3, L0803: 3, L0790: 3, H0547: 3, H0689: 3, H0658: 3, S0406: 3, H0436: 3, L0779: 3,		

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	H0013: 1, L0021: 1, H0599: 1, T0082: 1, S0474: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0597: 1, H0327: 1, H0545: 1, H0178: 1, H0373: 1, S0320: 1, L0171: 1, H0266: 1, H0084: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0644: 1, H0181: 1, L0055: 1, L0455: 1, H0163: 1, H0040: 1, H0551: 1, H0412: 1, S0038: 1, H0100: 1, T0041: 1, H0494: 1, H0560: 1, H0561: 1, H0509: 1, S0150: 1, L0598: 1, H0529: 1, L0763: 1, L0637: 1, L0646: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, L0526: 1, L0518: 1, L0519: 1, L0789: 1, L0666: 1, S0374: 1, H0519: 1, H0684: 1, H0660: 1, H0666: 1, H0648: 1, H0522: 1, S0146: 1.				
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							H0555: 1, S0028: 1, L0742: 1, L0753: 1, H0445: 1, H0595: 1, S0434: 1, L0592: 1, L0485: 1, L0608: 1, S0194: 1 and L0600: 1.		
HTEOV06	1054813	811	311 - 799	2986		Glu-12 to Thr-27, Met-45 to Asn-52, Tyr-79 to Thr-87, Asp-97 to Tyr-103, Met-120 to Asp- 128, Pro-149 to Tyr-163.	L0747: 2, H0556: 1, S0134: 1, H0341: 1, S0444: 1, H0013: 1, H0575: 1, H0050: 1, H0687: 1, H0628: 1, H0090: 1, H0616: 1, H0551: 1, S0440: 1, H0710: 1, L0748: 1, L0740: 1 and S0434: 1.		
HAMGH34	1055012	812	1446 - 661	2987		Thr-8 to Ala-15, Lys-29 to Ser-39, Lys-44 to Asn-52, Gly-61 to Pro-68.	H0560: 1, S0426: 1, L0776: 1, L0545: 1, L0588: 1, L0591: 1 and H0542: 1.		
HTEHP29	1055174	813	889 - 305	2988		Gly-1 to His-8, Pro-13 to Asn-30.	L0483: 6, L0749: 5, L0659: 4, L0766: 3, L0591: 3, H0038: 2, L0769: 2, L0665: 2, L0438: 2, H0539: 2, L0758: 2, L0759: 2, L0588: 2, H0650: 1, H0664: 1, S0360: 1, S0003: 1, H0615: 1, H0553: 1, H0644: 1, H0169: 1, S0438: 1,		

HNOJJ32	1055248	814	532 - 1914	2989	Gln-2 to Asp-7, Lys-34 to Arg-53, Gly-61 to Glu-70.	S0422: 1, L0770: 1, L0662: 1, L0804: 1, L0776: 1, L0666: 1, S0374: 1, S0310: 1, H0520: 1, S0126: 1, L0748: 1, L0439: 1, L0747: 1 and L0757: 1. H0046: 13, L0439: 6, S0360: 3, H0024: 3, L0769: 3, L0805: 3, L0748: 3, L0749: 3, H0624: 2, H0100: 2, H0520: 2, S0436: 2, L0592: 2, H0685: 1, H0717: 1, H0661: 1, H0664: 1, H0449: 1, S0420: 1, S0376: 1, S0007: 1, S0476: 1, S0300: 1, L0717: 1, H0013: 1, H0156: 1, L0021: 1, H0575: 1, S0010: 1, S0474: 1, L0738: 1, H0178: 1, H0018: 1, S6028: 1, H0188: 1, H0687: 1, H0252: 1, H0428: 1, H0553: 1, S0036: 1, H0038: 1, H0264: 1, S0038: 1, H0561: 1, S0450: 1 S0422: 1		
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HFPHF52	1055304	815	2 - 1333	2990	Ala-1 to Phe-8, Glu-16 to Gly-52, Ser-64 to Glu-80, Leu-94 to Lys-99, Ser-123 to Glu-136, His-157 to Ser-164, Lys-179 to Pro-190, Arg-220 to Glu-226, Phe-244 to Arg-252, Lys-277 to Thr-288, Glu-305 to Gly-310, Glu-328 to Glu-334, Pro-390 to Ala-401, Pro-411 to Gln-417.	S0002: 1, L5566: 1, L0803: 1, L0651: 1, L0776: 1, L0789: 1, S0330: 1, S0332: 1, H0704: 1, S0406: 1, L0740: 1, L0780: 1, L0758: 1, L0759: 1, H0595: 1, S0434: 1, L0595: 1, S0026: 1, H0543: 1, H0423: 1 and H0008: 1.	19q13.4	134790, 191044, 600040, 600138
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						L0002: 1, L0717: 1, H0369: 1, H0455: 1, H0438: 1, H0642: 1, H0331: 1, H0244: 1, H0156: 1, S0010: 1, H0052: 1, L0118: 1, H0051: 1, S0048: 1, S0051: 1, T0010: 1, S6028: 1, L0142: 1, H0674: 1, T0027: 1, L0435: 1, L0369: 1, L0662: 1, L0658: 1, L0659: 1, L0789: 1, L0790: 1, L0791: 1, L0792: 1, L0666: 1, T0068: 1, H0519: 1, S0122: 1, H0672: 1, H0539: 1, S0260: 1 and L0592: 1.		
HBNMF62	1055381	816	266 - 679	2991	Pro-13 to Gly-25, Arg-47 to Gly-54, Pro-74 to Lys-81, His-87 to Trp-93, Glu-107 to Arg-137.	AR089: 2, AR052: 2, AR055: 2, AR039: 1, AR060: 1, AR096: 1, AR033: 1, AR053: 1, AR061: 1, AR104: 0 L0754: 7, L0748: 4, S0007: 3, L0771: 3, L0749: 3, L0750: 3, L0600: 3, L0717: 2, H0618: 2, H0046: 2, H0561: 2, S0422: 2		

HTPHO72	1055426	817	2 - 1048	2992	Gly-8 to Arg-14, Pro-24 to Arg-29, Leu-64 to Arg-73, His-91 to Arg-97, Tyr-141 to Thr-148, Glu-153 to Met-158, Asp-173 to Arg-180, Lys-185 to Pro-199, Glu-228 to Asp-235	L0763: 2, L0637: 2, L0794: 2, L0659: 2, H0660: 2, L0439: 2, L0755: 2, T0002: 1, H0583: 1, H0671: 1, S0354: 1, S6016: 1, H0586: 1, L0021: 1, H0052: 1, S0051: 1, T0010: 1, H0083: 1, H0553: 1, H0135: 1, H0063: 1, H0633: 1, L0639: 1, L0646: 1, L0649: 1, L0375: 1, L0655: 1, L0545: 1, L0647: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0378: 1, H0696: 1, L0751: 1, L0752: 1, L0758: 1, L0759: 1, L0596: 1, L0608: 1 and H0423: 1.	15q22.33- q24.1	151670, 231680, 276700, 600374, 601780
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Leu-244 to Glu-258, Lys-264 to Pro-281, Asn-310 to Ser-316, Glu-331 to Leu-349.	L0717: 3, H0550: 3, H0251: 3, H0622: 3, H0553: 3, L0598: 3, L0646: 3, L0794: 3, L0517: 3, H0144: 3, L0438: 3, L0757: 3, L0785: 2, S0212: 2, S0358: 2, S0360: 2, H0013: 2, H0052: 2, H0150: 2, S0003: 2, H0644: 2, H0059: 2, L0520: 2, L0766: 2, L0804: 2, L0806: 2, L0659: 2, H0520: 2, H0593: 2, H0658: 2, S0330: 2, H0521: 2, L0747: 2, L0750: 2, L0756: 2, L0608: 2, H0422: 2, H0170: 1, H0171: 1, H0149: 1, H0713: 1, H0125: 1, S0418: 1, S0376: 1, S0408: 1, H0580: 1, S0045: 1, H0549: 1, S0222: 1, H0612: 1, H0600: 1, H0586: 1, H0574: 1, H0632: 1, L0021: 1, H0575: 1, H0004: 1, L0109: 1, L0738: 1, H0530: 1.
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HOPKL18	1055439	818	2 - 1438	2993	Glu-35 to Pro-41, Ala-55 to Arg-67.	L0041: 1, N0006: 1, H0014: 1, L0163: 1, S0051: 1, H0266: 1, S0214: 1, H0615: 1, H0428: 1, T0006: 1, H0674: 1, H0068: 1, S0036: 1, H0616: 1, H0551: 1, H0100: 1, H0494: 1, H0560: 1, S0472: 1, H0646: 1, L0770: 1, L0639: 1, L0761: 1, L0772: 1, L0773: 1, L0653: 1, L0629: 1, L0657: 1, L0529: 1, L0665: 1, S0374: 1, H0519: 1, H0682: 1, H0659: 1, H0670: 1, H0666: 1, H0672: 1, H0539: 1, S0380: 1, S0404: 1, S0406: 1, H0436: 1, H0478: 1, H0627: 1, S0028: 1, L0777: 1, L0780: 1, L0755: 1, L0731: 1, S0196: 1, H0542: 1, H0423: 1, S0424: 1, L0600: 1 and H0352: 1.	L0754: 95, L0755: 38, H0545: 20, H0617: 14.	22q11.23	123620, 600850
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Ala-82 to Lys-87, Gly-94 to Asp-100, Lys-175 to Asp-181, Asp-185 to Trp-190, Gly-193 to Asp-199, Leu-247 to Trp-252, Pro-278 to Asp-283, Arg-395 to Phe-402, Pro-404 to Asp-410, Pro-412 to Trp-420, Gly-443 to Asp-450.	L0751: 12, H0622: 11, L0731: 10, L0659: 8, L0777: 7, L0759: 7, S0360: 6, H0544: 5, L0764: 5, L0748: 5, H0546: 4, L0750: 4, L0780: 4, L0603: 4, H0620: 3, H0644: 3, H0606: 3, H0059: 3, L0771: 3, L0766: 3, L0806: 3, L0665: 3, H0684: 3, H0618: 2, H0086: 2, H0181: 2, L0644: 2, L0375: 2, L0666: 2, L0664: 2, L0744: 2, L0747: 2, L0779: 2, L0752: 2, L0757: 2, L0758: 2, L0605: 2, H0624: 1, H0171: 1, H0661: 1, H0662: 1, S0046: 1, H0549: 1, H0251: 1, H0012: 1, T0003: 1, H0039: 1, H0553: 1, H0316: 1, H0040: 1, H0477: 1, S0352: 1, L0763: 1, L0769: 1, L0796: 1, L0761: 1, L0772: 1, L0773: 1, L0648: 1, L0807: 1,					
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HBAAAE59	1055446	819	807 - 145	2994			L0658: 1, L0663: 1, H0658: 1, S0332: 1, H0555: 1, L0749: 1 and L0597: 1.				116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 600163
HTXKD84	1055467	820	1845 -	2995	Lys-18 to Glu-24,		L0748: 5, L0747: 5, L0766: 3, L0439: 3, L0749: 3, L0752: 3, L0717: 2, L0763: 2, L0772: 2, L0776: 2, L0753: 2, L0731: 2, L0758: 2, L0605: 2, H0580: 1, S0222: 1, L0022: 1, L0157: 1, H0014: 1, H0622: 1, H0617: 1, H0040: 1, H0616: 1, L0435: 1, T0041: 1, S0426: 1, L0598: 1, L0369: 1, L0373: 1, L0764: 1, L0773: 1, L0662: 1, L0768: 1, L0387: 1, L0809: 1, L0529: 1, L0438: 1, H0659: 1, S0404: 1, H0555: 1, S0028: 1, L0742: 1, L0779: 1, L0777: 1, L0755: 1, L0588: 1, L0599: 1, L0604: 1, S0276: 1 and H0422: 1.			3p21.3	
HTXKD84	1055467	820	1845 -	2995	Lys-18 to Glu-24,						

			1177	<p>Leu-45 to Ile-54, Ala-105 to Thr-114, Pro-123 to Leu-130, Leu-167 to Lys-175, Pro-190 to Pro-195, Val-211 to Ser-218.</p>	<p>H0547: 8, L0751: 7, L0777: 6, H0556: 4, H0617: 4, L0435: 4, L0776: 4, L0750: 4, H0253: 3, H0135: 3, H0038: 3, L0774: 3, L0666: 3, S0206: 3, L0605: 3, H0543: 3, H0423: 3, H0624: 2, S0418: 2, L0005: 2, S0007: 2, H0208: 2, S0132: 2, H0013: 2, T0010: 2, H0290: 2, H0213: 2, H0494: 2, L0766: 2, L0659: 2, L0663: 2, L0665: 2, L0438: 2, H0520: 2, H0682: 2, L0743: 2, L0748: 2, L0779: 2, L0758: 2, L0592: 2, H0265: 1, S0040: 1, H0295: 1, S0218: 1, H0657: 1, H0656: 1, S0001: 1, H0402: 1, H0459: 1, S0420: 1, S0046: 1, H0351: 1, H0602: 1, H0586: 1, L0622: 1, H0101: 1, S0280: 1, H0599: 1, H0575: 1, T0082: 1,</p>		
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				H0618: 1, H0052: 1, H0309: 1, T0110: 1, H0545: 1, H0046: 1, H0041: 1, H0050: 1, H0024: 1, H0057: 1, H0051: 1, H0271: 1, H0416: 1, H0188: 1, H0292: 1, H0286: 1, H0252: 1, H0615: 1, T0006: 1, H0418: 1, H0606: 1, H0674: 1, L0455: 1, H0124: 1, H0068: 1, H0090: 1, H0040: 1, H0616: 1, T0067: 1, H0264: 1, H0488: 1, H0413: 1, H0623: 1, H0059: 1, L0351: 1, T0041: 1, S0306: 1, H0641: 1, H0538: 1, S0210: 1, L0369: 1, L0520: 1, L0763: 1, L0770: 1, L0771: 1, L0662: 1, L0649: 1, L0522: 1, L0375: 1, L0655: 1, L0367: 1, L0664: 1, H0689: 1, H0435: 1, H0659: 1, H0648: 1, H0651: 1, S0380: 1, H0521: 1, S0168: 1
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							H0134: 1, S014: 1, L0742: 1, L0744: 1, L0740: 1, L0754: 1, L0755: 1, L0759: 1, L0603: 1, H0668: 1, S0196: 1, H0422: 1 and H0352: 1.			
HTXRR82	1055480	821	408 - 1364	2996	Val-7 to Glu-20, Pro-99 to Lys-105, Glu-113 to Val-119, Ser-136 to Trp-142, Ala-159 to His-164.		H0556: 2, H0135: 2, S0040: 1, H0657: 1, H0586: 1, H0013: 1, H0428: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0775: 1, H0521: 1, L0748: 1, L0749: 1, L0759: 1 and H0543: 1.			
HAIBU62	1055582	822	1 - 1518	2997	Arg-44 to Val-54.		L0439: 9, S0136: 7, L0777: 3, L0779: 2, H0624: 1, H0170: 1, H0686: 1, H0656: 1, S0408: 1, S0132: 1, H0374: 1, H0266: 1, H0551: 1, L0521: 1, L0662: 1, L0794: 1, L0766: 1, L0381: 1, L0803: 1, L0659: 1, L0809: 1, L0663: 1, L0438: 1, H0659: 1, H0539: 1, L0752: 1, L0592: 1 and L0595: 1.			

HDTAY29	1055632	823	1276 - 686	2998		L0731: 5, H0038: 3, L0766: 2, H0683: 2, H0670: 2, H0660: 2, L0747: 2, L0749: 2, L0779: 2, L0758: 2, H0583: 1, S0420: 1, S0360: 1, H0486: 1, H0156: 1, H0599: 1, H0581: 1, H0597: 1, H0247: 1, H0494: 1, H0647: 1, S0210: 1, L0794: 1, L0804: 1, H0436: 1, S0027: 1, L0596: 1, L0485: 1 and H0542: 1.		
HCOQD79	1055767	824	42 - 689	2999	Trp-8 to Gly-16, Ala-18 to Ala-26, His-28 to His-41, Pro-79 to Glu-85.	L0769: 3, H0484: 1, H0546: 1, H0178: 1, H0553: 1, S0366: 1, L0770: 1, L0761: 1, L0772: 1, L0372: 1, L0374: 1, L0645: 1, L0771: 1, L0766: 1, L0653: 1, L0666: 1, L0664: 1, H0670: 1, S0406: 1, L0777: 1, L0601: 1 and S0446: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273,

								601313, 601785
HAMHN12	1055899	825	2 - 1129	3000	Ala-20 to Arg-28, Gly-37 to Thr-47, Pro-50 to Asn-56, Pro-77 to Ala-82, Thr-114 to Ala-119, Pro-133 to Thr-141, Gly-150 to Cys-161, Pro-165 to Asn-177, Thr-179 to Gly-188, Glu-198 to Cys-212, Ile-216 to Arg-222, Val-254 to Arg-265, Ser-271 to Leu-276, Lys-281 to Asn-286, Pro-341 to Lys-346, Ala-349 to Met-355.	AR096: 626, AR039: 392, AR089: 360, AR053: 315, AR060: 315, AR033: 157, AR104: 153, AR061: 115, AR055: 31 L0518: 7, L0777: 6, L0809: 5, L0744: 4, L0649: 2, L0659: 2, H0658: 2, L0748: 2, L0747: 2, L0750: 2, H0411: 1, H0013: 1, L0021: 1, H0123: 1, H0050: 1, H0163: 1, H0560: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0662: 1, L0375: 1, L0776: 1, L0439: 1, L0749: 1, L0779: 1 and L0599: 1.		
HODIY67	1056000	826	2 - 1957	3001	Ala-27 to Lys-35, Arg-63 to Ile-70, Tyr-100 to Ala-105, Ser-159 to Thr-168.	L0766: 6, L0776: 6, L0777: 5, L0803: 4, L0731: 3, L0759: 3, S0222: 2, H0013: 2, L0157: 2, L0805: 2, L0666: 2, H0521: 2, L0740: 2, L0361: 2, H0170: 1, H0171: 1,	15q	

HNTRS57	1056097	827	2 - 1357	3002	Asn-6 to Val-11.	S0212: 1, S0442: 1, S0358: 1, S0376: 1, S0444: 1, S0360: 1, L0717: 1, H0587: 1, S0414: 1, H0250: 1, H0427: 1, H0575: 1, H0596: 1, H0546: 1, S0003: 1, H0615: 1, H0644: 1, H0040: 1, H0477: 1, H0646: 1, H0538: 1, L0763: 1, L0638: 1, L0804: 1, L0774: 1, L0809: 1, L0519: 1, L0788: 1, L4501: 1, L0665: 1, S0374: 1, H0690: 1, H0648: 1, H0651: 1, S0328: 1, H0539: 1, S0404: 1, H0436: 1, L0750: 1, L0779: 1, S0434: 1, L0599: 1 and L0595: 1.		
						AR096: 2, AR060: 1, AR089: 1, AR039: 0, AR033: 0, AR104: 0, AR055: 0, AR061: 0 L0747: 16, L0758: 8, L0751: 7, L0774: 6, H0617: 5, L0803: 5, L0809: 5 L0794: 4		

				L0766: 4, L0666: 4, L0777: 4, L0581: 4, H0265: 3, L0534: 3, H0004: 3, L0764: 3, H0682: 3, L0750: 3, S0212: 2, S0418: 2, S0358: 2, H0013: 2, H0424: 2, H0181: 2, H0616: 2, L0769: 2, L0761: 2, L0775: 2, L0375: 2, L0655: 2, L0657: 2, L0659: 2, L0663: 2, L0665: 2, H0547: 2, H0658: 2, H0670: 2, H0660: 2, H0648: 2, L0749: 2, L0752: 2, L0755: 2, L0759: 2, L0589: 2, L0608: 2, H0423: 2, H0624: 1, H0170: 1, H0556: 1, H0685: 1, H0717: 1, H0738: 1, H0341: 1, H0484: 1, S0442: 1, S0360: 1, H0393: 1, H0441: 1, H0392: 1, H0415: 1, H0587: 1, H0333: 1, S0280: 1, H0156: 1, H0599: 1, H0052: 1, H0205: 1, H0150: 1.
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HUKFL74	1056102	828	1 - 177	3003	Arg-13 to Glu-21, Ser-36 to Gly-57.	H0375: 1, H0615: 1, H0644: 1, H0606: 1, H0038: 1, H0412: 1, H0494: 1, S0422: 1, S0426: 1, L0763: 1, L0770: 1, L0639: 1, L0662: 1, L0768: 1, L0649: 1, L0804: 1, L0805: 1, L0776: 1, L0783: 1, L0793: 1, L0664: 1, H0144: 1, S0374: 1, H0593: 1, S0126: 1, H0689: 1, H0539: 1, H0518: 1, S0013: 1, S0404: 1, H0576: 1, S0027: 1, L0786: 1, L0780: 1, L0731: 1, H0595: 1, L0601: 1, H0668: 1, H0653: 1, H0665: 1 and S0194: 1.	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843
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HTEBF05	1056104	829	3 - 344	3004	Arg-7 to Thr-15, Leu-23 to Asp-30, Glu-37 to Val-48, Thr-54 to Pro-64,	L0615: 1, H0159: 1, S0040: 1, H0483: 1, H0254: 1, S0410: 1, H0734: 1, H0549: 1, H0574: 1, H0485: 1, H0013: 1, H0618: 1, H0052: 1, H0597: 1, H0150: 1, H0408: 1, H0416: 1, H0188: 1, H0252: 1, H0030: 1, H0644: 1, S0366: 1, H0634: 1, T0067: 1, H0059: 1, T0042: 1, H0560: 1, H0647: 1, L0763: 1, L0371: 1, L0637: 1, L0667: 1, L0800: 1, L0764: 1, L0771: 1, L0767: 1, L0768: 1, L0803: 1, L0776: 1, L0659: 1, L0789: 1, L0532: 1, L0665: 1, H0144: 1, H0698: 1, S0126: 1, S0392: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1 and S0436: 1.	AR061: 3, AR039: 3, AR089: 3, AR096: 2, AR053: 2, AR060: 2, AR055: 1, AR104: 1,	AR061: 3, AR039: 3, AR089: 3, AR096: 2, AR053: 2, AR060: 2, AR055: 1, AR104: 1,	3p25	154705, 193300, 193300, 227646,
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						Thr-103 to Thr-108.	AR033: 1 L0665: 4, H0659: 2, H0553: 1, H0038: 1, L0659: 1, L0777: 1, L0758: 1 and L0601: 1.			253260, 278720, 601154, 601253, 602011
HOPKD19	1056275	830	158 - 1084	3005		Ala-95 to Ser-101, Pro-103 to Asp-108, Glu-177 to Lys-183, Lys-226 to Lys-234, Leu-252 to Gly-257, Gln-293 to Ser-301.	H0556: 29, L0748: 28, L0745: 18, H0620: 16, H0040: 15, L0595: 14, H0547: 13, S0358: 12, L0777: 12, H0559: 11, S0046: 9, S0440: 9, L0740: 9, H0265: 8, H0494: 8, L0751: 8, H0341: 7, S0408: 7, L0646: 7, S0126: 7, L0746: 7, L0747: 7, H0543: 7, H0657: 6, H0318: 6, H0052: 6, H0135: 6, L0775: 6, L0655: 6, L0666: 6, H0519: 6, S0406: 6, S0045: 5, H0486: 5, H0581: 5, H0024: 5, L0375: 5, L0659: 5, H0520: 5, S0206: 5, L0750: 5, L0752: 5, T0002: 4, H0717: 4, H0484: 4, S0376: 4, H0497: 4, H0257: 4, H0545: 4, H0644: 4,	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096	

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HLICR58	1056290	831	3 - 932	3006	Ser-48 to Asp-53, Asn-63 to Arg-69, Lys-77 to Lys-82.	AR061: 7, AR089: 7, AR053: 5, AR060: 5, AR033: 4, AR096: 4, AR055: 4, AR039: 3, AR104: 3, AR052: 0 L0750: 33, L0588: 29, H0341: 22, L0361: 22, L0748: 19, H0657: 18, H0648: 18, S0360: 17, H0670: 17, S0358: 16, H0170: 15, H0144: 14, L0752: 14, L0757: 13, L0758: 13, S0007: 12, H0494: 12, L0520: 12, H0543: 12, L0471: 11, L0521: 11, L0767: 11, H0659: 11, L0749: 11, L0783: 10, H0305: 9, S0046: 9, H0615: 9, L0754: 9, H0624: 8, H0014: 8, L0663: 8, S0126: 8, H0672: 8, L0591: 8, L0604: 8, H0136: 8, S0045: 7, H0031: 7, H0633: 7, H0436: 7, S0028: 7, H0125: 6, S0132: 6, H0411: 6, H0392: 6, H0574: 6, T0109: 6, S0438: 6, L0762: 6,		
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HISBE12	1056376	832	53 - 1276	3007	Leu-76 to Lys-84, Lys-90 to Leu-97, His-115 to Thr-120, Pro-128 to Trp-136, Asp-393 to Ala-403	H0641: 1, H0647: 1, S0144: 1, S0142: 1, L0640: 1, L0637: 1, L0646: 1, L0764: 1, L0363: 1, L0794: 1, L0766: 1, L0499: 1, L0522: 1, L0774: 1, L0775: 1, L0651: 1, L0378: 1, L0805: 1, L0509: 1, L0652: 1, L0555: 1, L0513: 1, L0656: 1, L0559: 1, L0384: 1, L0809: 1, L0529: 1, L0368: 1, L0532: 1, H0691: 1, H0520: 1, H0519: 1, H0684: 1, H0651: 1, S0454: 1, S0013: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0731: 1, H0343: 1, L0592: 1, L0485: 1, L0608: 1, L0593: 1, H0217: 1, H0216: 1, H0008: 1 and H0352: 1.		
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HAAH48	1056400	833	1 - 210	3008	Lys-10 to Ser-16, Pro-30 to Ala-36.			H0635: 1 and H0561: 1.			
HSKJC61	1056407	834	210 - 1436	3009	His-8 to Gly-18, Pro-58 to Lys-68, Gln-109 to Lys-115, Val-175 to Pro-180, Ser-221 to Asp-228, Thr-256 to His-261, Asp-287 to Asp- 294, Thr-321 to Asp-328, Asn-349 to Ile-357, Phe-376 to Glu-386, Pro-396 to Ser-409.			AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR061: 2, AR053: 2, AR039: 2, AR104: 2, AR033: 2 S0132: 2, S0358: 1, H0615: 1, T0023: 1, H0435: 1, S3014: 1, L0740: 1, L0591: 1 and L0362: 1.			
HEEBK29	1056454	835	1015 - 3060	3010					21q22.3		120220, 120240, 123580, 151385

HCHMM19	1056617	836	1 - 1182	3011		L0751: 25, L0665: 23, H0656: 12, L0743: 10, H0617: 9, H0620: 8, L0657: 8, H0318: 7, H0658: 7, H0650: 5, H0483: 5, H0657: 4, H0012: 4, H0024: 4, H0689: 4, H0341: 3, H0484: 3, H0618: 3, H0253: 3, H0688: 3, H0659: 3, H0670: 3, L0603: 3, S0358: 2, H0052: 2, H0615: 2, H0264: 2, H0100: 2, L0763: 2, L0637: 2, L0651: 2, L0659: 2, L0791: 2, L0663: 2, H0555: 2, L0748: 2, L0779: 2, S0282: 1, H0255: 1, H0306: 1, S0045: 1 I 0717: 1			171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145
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HE8NG02	1056625	837	85 - 1041	3012	Thr-2 to Asn-10, Ser-72 to Lys-78, Gly-95 to Thr-101, Phe-134 to Ile-147, Lys-163 to Lys-172, Gln-199 to Glu-206, Ala-212 to Trp-224, Lys-230 to His-236, Arg-238 to Glu-244, Asp-249 to Gly-254, Met-260 to Tyr-266.	AR052: 4, AR039: 3, AR055: 3, AR060: 3, AR061: 3, AR089: 2, AR033: 2, AR053: 2, AR096: 1, AR104: 1 H0624: 4, H0170: 3, H0328: 3, H0329: 2, H0013: 2, L0747: 2, L0777: 2, H0046: 1 and L0759: 1.		

HWHKD22	1056654	838	1287 - 601	3013	Arg-272 to Arg-279. Thr-32 to His-38, Thr-46 to Asn-55, Asn-158 to Gly-165, Thr-191 to Asn-199.	AR096: 14, AR089: 14, AR033: 10, AR061: 8, AR060: 8, AR052: 7, AR055: 6, AR053: 5, AR104: 3, AR039: 2 L0766: 3, L0659: 3, L0744: 3, L0794: 2, L0805: 2, L0665: 2, H0648: 2, H0305: 1, H0586: 1, H0599: 1, H0428: 1, H0551: 1, S0038: 1, S0422: 1, L0763: 1, L0637: 1, L0662: 1, L0803: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0661: 1, L0787: 1, S0374: 1, H0520: 1, L0740: 1, L0750: 1, L0777: 1, L0752: 1, L0759: 1 and L0592: 1.			
HOC PJ87	1056666	839	22 - 1125	3014	Glu-5 to His-15, Phe-20 to Lys-41, Gln-43 to Tyr-49, Asn-146 to Thr-152, His-157 to Phe-164, Arg-181 to Gly-191, Lys-219 to Asn-224.	L0777: 6, L0766: 5, L0747: 5, L0744: 4, H0660: 3, L0750: 3, H0657: 2, L0769: 2, S0298: 1, S0360: 1, H0730: 1, H0592: 1, H0544: 1, H0629: 1,	18p11.3- p11.2	142946, 202200	

					Lys-261 to Leu-278, Thr-291 to Asn-297, Glu-302 to Thr-312, Ser-316 to Thr-342, Gln-344 to Asp-367.	S0334: 1, S0003: 1, H0591: 1, H0641: 1, L0598: 1, H0529: 1, L0762: 1, L0502: 1, L0763: 1, L0372: 1, L0646: 1, L0644: 1, L0768: 1, L0775: 1, L0806: 1, L0527: 1, H0144: 1, L0438: 1, H0690: 1, H0658: 1, H0648: 1, S0146: 1, S0406: 1, L0740: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, L0731: 1, L0758: 1, L0759: 1, S0434: 1 and H0506: 1.		
HAAAA59	1056671	840	3 - 2765	3015	Lys-6 to Ser-15, Ser-23 to Ala-28, Thr-81 to Gln-89, Gln-191 to Gly-198.	H0694: 92, L0766: 9, L0747: 8, S0126: 7, L0439: 7, H0266: 6, L0776: 6, L0666: 6, L0748: 6, L0759: 6, H0622: 5, H0038: 5, H0623: 5, L0763: 5, L0659: 5, H0656: 4, S0358: 4, S0476: 4, H0486: 4, H0013: 4, L0598: 4, H0529: 4, L0662: 4, L0805: 4, L0655: 4, L0663: 4,		

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HOSBJ18	1056672	841	422 - 2026	3016	Ile-15 to Lys-33, Phe-99 to Lys-104, Ile-107 to Cys-114.	L0521: 1, L0649: 1, L0389: 1, L0803: 1, L0804: 1, L0775: 1, L0661: 1, L0629: 1, L0657: 1, L0367: 1, L0789: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, S0378: 1, H0518: 1, S0152: 1, S0350: 1, H0522: 1, H0704: 1, S0406: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0757: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, S0194: 1, H0423: 1, S0424: 1 and H0008: 1.			
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HUSGX12	1056736	842	2 - 838	3017	Arg-1 to Thr-6, Arg-86 to Gly-91, Ser-102 to Leu-107, Leu-111 to Arg-122, Arg-140 to Gly-145, Glu-170 to Ser-195, Pro-200 to Thr-221, Gly-234 to Asp-250.	L0750: 4, H0622: 3, L0792: 3, H0619: 2, H0050: 2, L0759: 2, H0624: 1, H0661: 1, L0005: 1, S0376: 1, S0360: 1, H0575: 1, H0597: 1, H0687: 1, H0412: 1, L0065: 1, L0761: 1, L0800: 1, L0794: 1, L0784: 1, L0807: 1, H0690: 1, H0672: 1, S0206: 1, L0748: 1, L0751: 1, L0747: 1, L0779: 1 and H0445: 1.		
HPDRG02	1056764	843	2 - 1405	3018		S0360: 18, L0794: 15, L0748: 13, L0740: 10, H0521: 9, L0666: 8, L0766: 7, L0439: 7, H0046: 6, H0031: 6, L0803: 6, L0783: 6, H0547: 6, S0436: 6, L0595: 6, H0318: 5, H0494: 5, L0769: 5, L0764: 5, L0779: 5, S0192: 5, H0486: 4, L0770: 4, H0658: 4, S0152: 4, L0751: 4, L0747: 4, L0750: 4, L0777: 4, L0757: 4,	7	

				S0242: 4, H0556: 3, S0408: 3, H0013: 3, H0620: 3, H0083: 3, S0250: 3, H0615: 3, H0213: 3, H0090: 3, H0268: 3, H0646: 3, L0800: 3, L0653: 3, L0809: 3, L0663: 3, H0689: 3, S3014: 3, L0749: 3, L0731: 3, L0596: 3, L0601: 3, H0657: 2, S0116: 2, H0341: 2, H0661: 2, S0418: 2, S0358: 2, S0045: 2, S0476: 2, H0393: 2, H0587: 2, H0574: 2, H0069: 2, T0048: 2, H0263: 2, H0544: 2, L0471: 2, H0673: 2, H0135: 2, H0591: 2, H0551: 2, H0412: 2, H0413: 2, S0440: 2, H0509: 2, H0131: 2, S0142: 2, S0002: 2, L0772: 2, L0662: 2, L5564: 2, L0655: 2, L0659: 2, L0647: 2, L0788: 2, L0664: 2, L0438: 2, H0519: 2, S0126: 2,			
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HKZBB48	1056767	844	230 - 1660	3019	Ser-6 to Asp-14, Asp-24 to Glu-32, Asn-56 to Gln-62, Pro-83 to Pro-92, Gly-152 to Glu-169,	H0379: 1, H0264: 1, H0056: 1, H0561: 1, S0450: 1, S0150: 1, H0647: 1, S0144: 1, S0426: 1, L0640: 1, L0763: 1, L0638: 1, L0639: 1, L0637: 1, L0372: 1, L0771: 1, L0773: 1, L0649: 1, L0804: 1, L0650: 1, L0774: 1, L0776: 1, L0807: 1, L0657: 1, L0368: 1, L0791: 1, L0793: 1, L0665: 1, H0144: 1, L0352: 1, H0520: 1, H0435: 1, H0659: 1, H0670: 1, H0648: 1, S0330: 1, H0522: 1, H0631: 1, S0206: 1, L0752: 1, L0755: 1, L0758: 1, L0759: 1, S0260: 1, S0026: 1, H0542: 1, H0422: 1, H0506: 1 and H0008: 1.	L0754: 5, L0758: 5, L0777: 4, L0752: 4, H0574: 3, S0003: 3, L0803: 3, L0790: 3, L0666: 3, H0624: 2,	5q23.3- q31.1	121050, 131400, 147061, 147575, 147575,
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Arg-376 to Lys-384, Glu-393 to Ser-406, Ser-441 to Gly-453.	S0358: 2, S0222: 2, L0369: 2, L0771: 2, L0768: 2, L0804: 2, L0774: 2, L0775: 2, L0776: 2, L0663: 2, H0539: 2, L0742: 2, L0748: 2, L0439: 2, L0750: 2, L0756: 2, L0779: 2, H0170: 1, L0002: 1, L0785: 1, S0356: 1, S0360: 1, H0580: 1, H0411: 1, H0437: 1, H0586: 1, H0497: 1, H0013: 1, L0021: 1, H0263: 1, H0050: 1, S0388: 1, H0060: 1, H0674: 1, H0090: 1, H0591: 1, L0564: 1, S0440: 1, L0648: 1, L0521: 1, L0794: 1, L0806: 1, L0655: 1, L0657: 1, L0783: 1, L0809: 1, L0789: 1, L0664: 1, H0144: 1, H0519: 1, H0689: 1, H0683: 1, H0704: 1, H0555: 1, L0740: 1, L0745: 1, L0749: 1, L0731: 1, L0759: 1 and L0601: 1	147575, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 602089
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HHAWB19	1056774	845	3 - 1316	3020	Pro-1 to Pro-9.	S0418: 1, H0580: 1, S0278: 1, H0013: 1, H0046: 1 and H0547: 1.	1q42-q44	106150, 106150, 145260, 173870, 173870, 600759, 600996, 601744, 601975
HHATP38	1056786	846	3 - 650	3021	Arg-16 to Arg-22, Ser-52 to Lys-62, Ala-73 to Arg-78, Arg-153 to Leu-169, Arg-172 to Leu-195, Glu-203 to Arg-216.	AR104: 5, AR089: 5, AR060: 2, AR055: 2, AR096: 2, AR061: 1	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770,

									600045, 600319, 600528, 601884
HVVBE07	1056801	847	645 - 983	3022	Tyr-47 to Arg-58.		S0053: 3, H0551: 2, S0418: 1, S0046: 1, H0486: 1, H0355: 1, L0771: 1, H0672: 1, S0206: 1, L0605: 1 and S0276: 1.		
HKAHB85	1056804	848	1 - 831	3023	Val-212 to Phe-223.		L0731: 9, H0617: 7, L0769: 7, L0809: 6, L0806: 5, S0328: 5, L0745: 4, L0764: 3, L0754: 3, H0624: 2, S0360: 2, H0550: 2, H0333: 2, H0086: 2, H0011: 2, H0266: 2, H0615: 2, H0424: 2, H0494: 2, L0770: 2, L0794: 2, L0649: 2, L0803: 2, L0804: 2, L0774: 2, L0493: 2, L0666: 2, H0658: 2, L0742: 2, L0743: 2, L0747: 2, L0755: 2, L0757: 2, L0591: 2, L0593: 2, L0697: 2, S0424: 2, H0170: 1, H0556: 1, H0294: 1,	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843

				H0341: 1, H0484: 1, H0483: 1, S0358: 1, S0376: 1, S0007: 1, H0370: 1, H0013: 1, H0706: 1, H0618: 1, H0253: 1, H0052: 1, H0085: 1, H0545: 1, H0012: 1, H0620: 1, H0024: 1, S0051: 1, H0687: 1, H0213: 1, H0031: 1, H0553: 1, H0181: 1, L0455: 1, H0334: 1, H0509: 1, L0772: 1, L0800: 1, L0768: 1, L0766: 1, L0805: 1, L0653: 1, L0776: 1, L0807: 1, L0658: 1, L0512: 1, L0659: 1, L0526: 1, L0783: 1, L0368: 1, L0789: 1, L0790: 1, L0665: 1, H0690: 1, H0435: 1, H0660: 1, H0539: 1, S0152: 1, H0521: 1, S0406: 1, L0751: 1, L0750: 1, L0779: 1, L0780: 1, L0752: 1, L0758: 1, L0587: 1, L0592: 1, L0599: 1 and I 0603: 1
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HUSXA15	1056810	849	303 - 1	3024	S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5, L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2,	2q33-q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 213700, 262000, 600258, 601277, 601318
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	S0378: 2, S0380: 2, S0406: 2, L0439: 2, L0759: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0664: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1, H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0644: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1				
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HNOCH54	1056839	850	1 - 1953	3025	Pro-8 to Glu-16, Lys-29 to Gly-34, Gly-85 to Glu-92, Lys-165 to Glu-172, Glu-180 to Ser-186, Ser-210 to Arg-215, Glu-278 to Gln-288, Lys-377 to Glu-383, Lys-405 to Gly-410, Lys-468 to Glu-474, Asn-483 to Arg-488, Gln-496 to Glu-502, Val-555 to Gly-561, Glu-611 to Pro-623, Lys-631 to Trp-638, Phe-641 to Gly-649.						
HOCPP16	1056856	851	1039 - 392	3026	Gly-20 to Tyr-30, Asn-40 to Glu-46, Ser-66 to Gly-75, Lys-85 to Gly-97, Glu-104 to Arg-115, Pro-135 to Pro-140, Pro-150 to Asn-159,			S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5,			

Leu-167 to Glu-173, Ile-191 to Glu-196, Val-210 to Gln-216.	L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2, S0378: 2, S0406: 2, L0439: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0564: 1, S0420: 1
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HNOAH83	1056862	852	3 - 848	3027	Val-2 to Val-7.	S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1, H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1, S0380: 1, H0696: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0597: 1, L0599: 1, H0542: 1 and S0384: 1.	H0617: 18, H0545: 12, 11p15.5	125852,
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HE2OU10	1056875	853	79 - 480	3028	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	L0806: 1, L0654: 1, L0629: 1, L0657: 1, L0656: 1, L0809: 1, L0647: 1, L0790: 1, L0665: 1, H0593: 1, H0689: 1, H0690: 1, H0435: 1, H0670: 1, S0328: 1, S0378: 1, S0380: 1, H0696: 1, S0406: 1, H0478: 1, H0631: 1, S3012: 1, S0028: 1, S0206: 1, L0750: 1, L0755: 1, L0759: 1, L0596: 1, L0597: 1, S0026: 1, H0665: 1, H0543: 1 and S0424: 1.	22q13.2- q13.31	188826, 250100, 250800, 250800
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HODGM46	1056927	854	884 - 738	3029	Ser-13 to His-19, Gly-41 to Arg-49.		H0615: 3			
HODFR44	1056990	855	2 - 469	3030	Arg-17 to Lys-33.		AR055: 28, AR053: 28, AR033: 26, AR052: 22, AR089: 20, AR061: 13, AR060: 13, AR039: 11, AR096: 10, AR104: 5 L0751: 4, L0439: 3, L0777: 3, L0779: 2, L0758: 2, H0650: 1, H0328: 1, H0615: 1, L0435: 1, L0769: 1, L0649: 1, L0650: 1, L0774: 1, L0376: 1, L0789: 1 and H0343: 1.			
HCHND12	1057009	856	100 - 333	3031	Arg-27 to Trp-35.		H0664: 9, H0370: 8, H0059: 8, H0483: 4, S0410: 4, L0751: 4, L0747: 4, L0750: 4, H0484: 3, L0664: 3,	17q11.2-17q12	144200, 148066, 148066, 148067, 148067,	

[illegible]

HBHAC29	1057157	857	2 - 553	3032			L0731: 1, L0605: 1 and L0600: 1. S0051: 4, H0441: 3, S0036: 3, L0769: 3, L0438: 3, L0439: 3, H0687: 2, L0665: 2, S0031: 2, S6024: 1, S0029: 1, H0455: 1, H0052: 1, L0638: 1, L0639: 1, S0053: 1 and L0742: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
HTPFW87	1057170	858	2 - 2206	3033	Ala-65 to Gly-77, Leu-79 to Lys-85, Gln-95 to Asp-103, Gln-113 to Ser-119, Ser-230 to Gly-235, Lys-358 to Phe-368, Gln-397 to Thr-407, Pro-474 to Val-484, Asn-494 to Asp-505, Glu-513 to Gly-521, Ser-532 to Arg-539, Thr-557 to Thr-562, Pro-566 to Glu-571, Pro-577 to Glu-582.		H0622: 42, S0380: 10, S0368: 3, H0040: 1, H0519: 1 and S0378: 1.		
HISAF60	1057212	859	2 - 988	3034	Arg-8 to Pro-18, Asp-76 to Arg-83, Glu-85 to Thr-94, Arg-139 to Ile-145,		AR039: 13, AR033: 12, AR104: 11, AR053: 10, AR055: 9, AR052: 9, AR089: 9, AR096:		

Gln-180 to Asp-196, 8, AR060: 5, AR061: 3				
Thr-201 to Ser-213, 3				
Lys-230 to Gln-235, L0731: 12, L0747: 9,				
Asn-293 to Gly-309, H0651: 5, L0759: 5,				
Thr-315 to Phe-321. H0644: 4, H0013: 3,				
L0748: 3, L0439: 3,				
L0779: 3, H0575: 2,				
H0052: 2, H0327: 2,				
H0050: 2, H0083: 2,				
L0769: 2, L0662: 2,				
L0438: 2, H0539: 2,				
L0743: 2, L0750: 2,				
L0588: 2, H0716: 1,				
L0002: 1, L0443: 1,				
S0001: 1, S0360: 1,				
H0645: 1, H0411: 1,				
H0587: 1, H0333: 1,				
H0486: 1, S0010: 1,				
S0050: 1, H0051: 1,				
H0428: 1, H0553: 1,				
H0032: 1, L0455: 1,				
S0036: 1, H0038: 1,				
H0412: 1, H0413: 1,				
H0100: 1, T0042: 1,				
L0770: 1, L0637: 1,				
L0766: 1, L0649: 1,				
L0774: 1, L0776: 1,				
L0655: 1, L0659: 1,				
L0783: 1, L0529: 1,				
L 5623: 1, L0790: 1				

							L0791: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, H0696: 1, S3014: 1, L0741: 1, L0744: 1, L0757: 1, L0608: 1 and S0398: 1.			
HRABO80	1057219	860	1521 - 1937	3035	Ala-1 to Ser-7, Gln-108 to Ser-117.		L0743: 4, L0751: 4, H0252: 3, L0659: 3, H0586: 2, H0135: 2, H0038: 2, L0438: 2, H0670: 2, L0779: 2, H0624: 1, S0430: 1, S0222: 1, H0052: 1, L0471: 1, T0010: 1, H0428: 1, H0616: 1, T0067: 1, L0564: 1, H0646: 1, L0662: 1, L0774: 1, L0783: 1, H0144: 1, S0126: 1, H0660: 1, H0651: 1, H0555: 1, L0749: 1, L0750: 1, L0752: 1, L0758: 1 and S0194: 1.			
HADDF30	1057260	861	1 - 1155	3036	Arg-49 to Leu-55, Arg-61 to Cys-69, Arg-87 to Arg-102, Asn-119 to Lys-125, Cys-132 to Met-151, Ser-157 to Glu-164,		L0777: 3, L0803: 2, L0774: 2, L0602: 2, L0596: 2, L0588: 2, S0376: 1, H0431: 1, H0427: 1, H0266: 1, H0328: 1, H0615: 1,	3q24-q28	106165, 117700, 117700, 165500, 169600, 180380,	

					Asn-187 to Glu-210, Glu-235 to Thr-243, Lys-245 to Val-251, His-256 to Ser-268, Ser-277 to Ser-288, Leu-303 to Glu-317, Glu-328 to Gln-341, Ser-350 to Leu-355, Ser-357 to Asn-364.		L0523: 1, L0659: 1, L0809: 1, L0666: 1, H0660: 1, S0378: 1 and L0750: 1.		180380, 180380, 276902, 600700, 601199, 601199, 601199, 601682
HDAAS58	1057272	862	245 - 460	3037	Asn-37 to Arg-45.		AR096: 4, AR089: 2, AR033: 2, AR060: 1, AR053: 1, AR055: 1, AR061: 1, AR104: 1, AR039: 0, AR052: 0 H0052: 4, L0768: 3, L0766: 3, L0438: 3, L0748: 3, L0750: 3, H0657: 2, H0341: 2, H0484: 2, T0042: 2, L0665: 2, H0658: 2, L0743: 2, L0744: 2, L0756: 2, L0777: 2, H0556: 1, H0656: 1, S0420: 1, H0393: 1, L0717: 1, S0222: 1, H0497: 1, H0486: 1, H0013: 1, H0263: 1, N0006: 1, L0579: 1, H0620: 1, L0163: 1, H0594: 1, H0267: 1,		

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HSDZG15	1057307	863	3 - 737	3038	Thr-92 to Gln-106, Val-222 to Val-227, Glu-229 to Asp-245.			H0556: 1, H0455: 1 and H0660: 1.			
HPDVY52	1057393	864	3 - 1391	3039				H0550: 3, L0751: 3, S0356: 2, H0024: 2, H0014: 2, H0059: 2, H0689: 2, H0690: 2, H0661: 1, H0645: 1, H0549: 1, H0052: 1, H0172: 1, H0123: 1, H0081: 1, H0266: 1, H0288: 1, H0553: 1, H0135: 1, H0494: 1, H0646: 1, L0649: 1, H0593: 1, H0682: 1	20q13.2- q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235	

							H0658: 1, H0672: 1, H0555: 1, L0439: 1, L0747: 1, S0276: 1 and H0506: 1.		
HHESW02	1057478	865	2 - 1252	3040		Arg-20 to Gly-28, Glu-41 to Asn-55, Asp-62 to Thr-74, Glu-105 to Thr-118, Ala-144 to Ser-158, Gln-200 to Glu-205, Cys-212 to Gly-217, Pro-231 to Phe-238, Gln-259 to Glu-264, Glu-282 to Tyr-288, Lys-300 to Asn-305, His-351 to Thr-358, Arg-399 to Cys-407.	H0556: 7, H0543: 7, H0265: 3, S0278: 3, S0002: 3, H0445: 3, H0657: 2, H0663: 2, H0580: 2, S0003: 2, H0090: 2, S0144: 2, S0152: 2, S0206: 2, H0542: 2, H0656: 1, H0125: 1, H0351: 1, H0575: 1, S0182: 1, H0023: 1, H0373: 1, H0375: 1, H0591: 1, H0040: 1, H0264: 1, T0041: 1, T0042: 1, S0142: 1, H0521: 1, H0214: 1, H0436: 1, L0750: 1, L0757: 1, S0242: 1, H0423: 1 and H0422: 1.		
HVVBW84	1057561	866	327 - 1625	3041		Cys-24 to Gly-35, Ala-42 to Glu-47, Gln-181 to Asp-188, Val-264 to Pro-270, Asn-289 to Gly-294, Leu-325 to Tyr-330, Gly-353 to Leu-360,	L0751: 19, L0659: 9, H0550: 8, H0545: 6, S0360: 5, H0620: 5, H0309: 4, H0050: 4, H0135: 4, L0754: 4, L0747: 4, L0731: 4, H0170: 3, H0253: 3,		

				Asn-379 to Asp-388.	H0024: 3, H0687: 3, H0124: 3, L0375: 3, H0144: 3, H0672: 3, S0196: 3, H0619: 2, H0586: 2, H0427: 2, H0546: 2, H0622: 2, H0628: 2, H0087: 2, H0100: 2, L0764: 2, L0519: 2, L0664: 2, S0028: 2, L0439: 2, L0758: 2, L0759: 2, H0343: 2, S0192: 2, S0212: 1, H0663: 1, H0662: 1, S0356: 1, H0208: 1, S0300: 1, H0549: 1, S0222: 1, H0392: 1, H0592: 1, H0618: 1, H0196: 1, H0052: 1, H0251: 1, H0232: 1, H0544: 1, H0041: 1, H0188: 1, S0250: 1, L0053: 1, H0031: 1, H0553: 1, H0644: 1, H0674: 1, H0163: 1, H0090: 1, H0477: 1, L0770: 1, L0644: 1, L0648: 1, L0662: 1, L0806: 1, L0776: 1, L0542: 1, L0546: 1, L0783: 1.
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HEAAC39	1057603	867	1365 - 1511	3042	Arg-12 to Gln-25, Gly-31 to Gly-38.		AR039: 5, AR053: 5, AR089: 4, AR060: 3, AR061: 3, AR055: 2, AR096: 1, AR033: 1, AR104: 0 L0747: 4, L0777: 3, L0657: 2, L0759: 2, L0811: 1, H0369: 1, L0021: 1, S0346: 1, H0009: 1, L0637: 1, L0772: 1, L0375: 1, L0783: 1, L0809: 1, H0659: 1, H0660: 1, L0731: 1 and L0758: 1.			
HSLJC80	1057797	868	143 - 1945	3043	His-12 to Ala-26, Ser-70 to Glu-78, Pro-87 to Pro-94.		AR055: 5, AR060: 5, AR061: 5, AR052: 4, AR033: 4, AR089: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0550: 9, H0651: 6, S0358: 5, L0659: 5, H0549: 3, H0586: 3, L0662: 3, L0794: 3,			

HEOAD12	1057842	869	332 - 934	3044				L0777: 3, H0575: 2, L0649: 2, L0744: 2, L0756: 2, L0758: 2, H0739: 1, H0716: 1, H0662: 1, H0587: 1, H0706: 1, H0050: 1, H0018: 1, H0200: 1, H0188: 1, H0687: 1, H0644: 1, H0628: 1, H0163: 1, H0100: 1, L0770: 1, L0809: 1, L0788: 1, L0663: 1, H0696: 1, S0406: 1, S0390: 1 and L0749: 1. AR052: 10, AR096: 6, AR053: 4, AR033: 4, AR089: 4, AR039: 4, AR060: 4, AR104: 3, AR055: 3, AR061: 2, L0659: 11, L0665: 11, L0666: 9, L0752: 9, L0731: 9, H0623: 7, L0663: 7, H0658: 7, L0743: 7, L0750: 7, L0662: 6, L0758: 6, L0759: 6, S0045: 5, S0046: 5, H0412: 5, L0776: 5, L0655: 5, L0779: 5, H0437: 4, H0457: 4, L0747: 4,		
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HVVBT41	1057880	870	214 - 1272	3045	Leu-1 to Lys-7, Arg-27 to Glu-33, Ala-43 to Gly-66, Ser-78 to Ser-84, Gly-111 to Val-118			H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0434: 1, H0251: 1, H0150: 1, H0024: 1, H0594: 1, H0179: 1, H0687: 1, H0119: 1, H0644: 1, H0628: 1, S0036: 1, H0038: 1, H0634: 1, T0067: 1, H0433: 1, H0269: 1, H0100: 1, L0065: 1, L0369: 1, L0770: 1, L0648: 1, L0521: 1, L0766: 1, L0804: 1, L0650: 1, L0651: 1, L0632: 1, L0806: 1, L0517: 1, L0518: 1, L0783: 1, L0647: 1, L0664: 1, H0693: 1, H0547: 1, H0659: 1, S0380: 1, H0710: 1, S0190: 1, H0727: 1, L0754: 1, L0756: 1, L0592: 1, H0667: 1, H0136: 1 and S0276: 1.		
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HAZAE42	1057915	871	3 - 659	3046	<p>Glu-140 to Lys-145, Lys-163 to Asp-168, Lys-189 to Phe-197, Arg-257 to Leu-264, Gln-285 to Asp-292, Gly-298 to Ala-308, Arg-314 to Glu-323, Gly-329 to Gly-338, Ser-343 to Leu-353.</p> <p>Pro-8 to Gly-18, Pro-57 to Ser-67, Lys-183 to Trp-191.</p>	<p>L0768: 7, L0750: 6, L0783: 5, H0687: 4, H0428: 4, L0770: 4, H0672: 4, H0031: 3, L0767: 3, L0776: 3, L0665: 3, H0539: 3, L0749: 3, L0755: 3, L0731: 3, L0759: 3, L0608: 3, H0333: 2, H0046: 2, H0009: 2, T0006: 2, H0644: 2, H0059: 2, L0386: 2, L0805: 2, L0809: 2, H0547: 2, L0742: 2, L0747: 2, L0779: 2, L0752: 2, H0624: 1, H0686: 1, H0656: 1, L0778: 1, H0662: 1, H0393: 1, H0369: 1, H0550: 1, H0441: 1, H0574: 1 H0632: 1</p>		
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HPRBN60	1057948	872	3 - 1019	3047	Phe-1 to Cys-8, Ala-10 to Gly-23, Gln-114 to Lys-120, Glu-129 to Phe-135, Ile-155 to Gln-160, Ser-193 to Thr-199, Asp-214 to Gly-226, Asp-236 to Gly-245, Ala-283 to Arg-288, Ala-322 to Asp-331. S0044: 1.		L0439: 9, H0550: 6, S0366: 6, S0364: 4, H0644: 3, S0358: 2, H0549: 2, H0645: 1, S0222: 1, H0370: 1, H0050: 1, L0471: 1, S0362: 1, H0039: 1, H0032: 1, H0212: 1, H0379: 1, L0438: 1 and S0044: 1.	4q35	158900, 229000, 264900		
HOVCZ68	1057958	873	1 - 987	3048	Arg-20 to Arg-26, H0574: 5, S0126: 4,						

					Ser-47 to Thr-59, Val-83 to Cys-91, Asn-94 to Arg-100, Asp-120 to Asn-126, Cys-135 to Glu-140, Gln-146 to Cys-153, Pro-184 to Gln-189, Lys-246 to Cys-252, Cys-259 to Asp-265, Ile-304 to Tyr-319.	L0748: 4, L0777: 4, L0759: 4, T0039: 3, H0428: 3, H0644: 3, S0194: 3, H0393: 2, H0331: 2, H0632: 2, L0021: 2, L0632: 2, L0805: 2, L0776: 2, H0436: 2, L0779: 2, H0171: 1, H0685: 1, H0661: 1, S0132: 1, H0333: 1, H0013: 1, H0546: 1, H0011: 1, H0024: 1, S0250: 1, H0038: 1, H0551: 1, T0067: 1, H0494: 1, S0210: 1, L0761: 1, L0794: 1, L0517: 1, L0790: 1, L0791: 1, L0665: 1, H0144: 1, H0689: 1, S0152: 1, L0747: 1, H0653: 1, S0192: 1, S0276: 1 and S0196: 1.			
H6EDF71	1057979	874	2 - 1120	3049	Asp-17 to Gly-23, Lys-89 to Asp-94, Lys-129 to Asp-134, Leu-195 to Glu-204.	L0777: 6, L0666: 3, H0648: 3, H0672: 3, L0747: 3, H0685: 2, S0376: 2, H0553: 2, S0440: 2, H0529: 2, L0775: 2, L0788: 2, L0665: 2, S0152: 2.	3q13.1- q13.2	600467, 600882	

HCOOF60	1058001	875	1 - 855	3050	<p>Gly-28 to Ser-36, Trp-38 to Pro-60, Pro-98 to Thr-104, Pro-113 to Tyr-118, Phe-133 to Gly-140, Pro-186 to Leu-192, Glu-239 to Gly-246, Pro-257 to Lys-269, Lys-273 to Lys-279.</p>	<p>L0599: 2, H0624: 1, H0265: 1, H0222: 1, H0713: 1, H0638: 1, S0354: 1, S0360: 1, S0408: 1, H0370: 1, H0559: 1, H0486: 1, H0581: 1, H0567: 1, H0083: 1, S0003: 1, H0674: 1, H0090: 1, L0475: 1, S0438: 1, S0002: 1, L0646: 1, L0521: 1, L0766: 1, L0651: 1, L0783: 1, L0663: 1, S0374: 1, H0519: 1, H0658: 1, H0696: 1, S0044: 1, S0406: 1, L0750: 1, L0755: 1, H0445: 1, L0366: 1, H0667: 1, S0276: 1, H0543: 1, H0423: 1 and H0506: 1.</p>	17	
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HVVBH81	1058059	876	3522 - 1090	3051	Glu-20 to Leu-35, Asp-48 to Gly-54.	L0498: 1, L0806: 1, L0653: 1, L0655: 1, L0606: 1, L0629: 1, L0510: 1, L0511: 1, L0656: 1, L0665: 1, S0052: 1, H0690: 1, H0670: 1, S0328: 1, H0539: 1, S0152: 1, H0521: 1, S0406: 1, L0742: 1, L0748: 1, L0751: 1, L0731: 1, L0758: 1, S0436: 1, L0097: 1, H0542: 1, L0698: 1 and H0506: 1.		
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S0420: 2, S0356: 2, S0476: 2, H0619: 2, H0431: 2, H0333: 2, T0109: 2, H0075: 2, H0599: 2, H0581: 2, H0052: 2, N0006: 2, H0179: 2, T0023: 2, H0644: 2, H0412: 2, H0100: 2, H0561: 2, H0641: 2, S0144: 2, S0344: 2, H0538: 2, S0426: 2, L0500: 2, L0638: 2, L0372: 2, L0497: 2, L0650: 2, L0664: 2, L0438: 2, L0352: 2, S0126: 2, H0660: 2, H0648: 2, H0672: 2, H0436: 2, S3014: 2, L0786: 2, L0779: 2, L0755: 2, L0759: 2, L0362: 2, L0361: 2, L0601: 2, S0026: 2, H0667: 2, S0192: 2, H0542: 2, H0422: 2, L0600: 2, H0556: 1, T0002: 1, H0159: 1, S0114: 1, S0134: 1, H0650: 1, H0656: 1, S0116: 1, S0001: 1, H0484: 1						
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	H0589: 1, H0458: 1, H0459: 1, H0638: 1, L0005: 1, S0442: 1, S0376: 1, S0444: 1, S0408: 1, S0410: 1, H0489: 1, H0637: 1, S0007: 1, S0045: 1, S0046: 1, S0140: 1, L0476: 1, H0411: 1, S0278: 1, H0550: 1, H0441: 1, H0404: 1, H0600: 1, H0574: 1, H0485: 1, T0039: 1, T0040: 1, L0586: 1, H0069: 1, H0427: 1, S0280: 1, L0021: 1, H0098: 1, H0575: 1, H0004: 1, S0010: 1, S0346: 1, L0105: 1, S0474: 1, S0049: 1, H0251: 1, H0309: 1, T0115: 1, L0738: 1, H0530: 1, L0041: 1, H0009: 1, H0562: 1, H0172: 1, H0620: 1, H0199: 1, H0024: 1, H0057: 1, H0014: 1, H0051: 1, S0051: 1, H0355: 1, H0510: 1, S6028: 1, H0267: 1				
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	S0318: 1, S0316: 1, H0687: 1, S0003: 1, H0328: 1, H0039: 1, H0622: 1, L0194: 1, H0030: 1, H0031: 1, L0142: 1, H0617: 1, H0169: 1, L0455: 1, H0124: 1, H0316: 1, H0090: 1, H0591: 1, H0551: 1, H0488: 1, H0413: 1, T0004: 1, T0041: 1, T0042: 1, L0475: 1, H0625: 1, S0370: 1, S0464: 1, S0440: 1, H0509: 1, S0150: 1, H0130: 1, S0208: 1, UNKWN: 1, L0520: 1, L0763: 1, L0631: 1, L0637: 1, L5575: 1, L0641: 1, L0771: 1, L0773: 1, L0648: 1, L0521: 1, L0662: 1, L0767: 1, L0775: 1, L0378: 1, L0806: 1, L0606: 1, L0661: 1, L0657: 1, L0542: 1, L0384: 1, L0528: 1, L0647: 1, L0367: 1, L0787: 1, L0789: 1, L0532: 1				
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HSPTJ51	1058172	877	3 - 1004	3052	Gly-6 to Gly-15, Pro-17 to Leu-22, Trp-25 to Leu-70, Asp-72 to Val-86, Asp-151 to Asn-170, Ala-183 to Gln-198, Pro-221 to Pro-227, Pro-236 to Gly-244, Pro-272 to Gly-281, Pro-304 to Asp-318.	H0697: 1, H0702: 1, H0699: 1, S0374: 1, H0723: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, H0670: 1, S0328: 1, H0539: 1, H0710: 1, H0696: 1, H0215: 1, H0631: 1, L0751: 1, L0777: 1, L0753: 1, L0757: 1, S0031: 1, S0260: 1, L0686: 1, H0707: 1, S0434: 1, S0436: 1, L0480: 1, L0589: 1, L0605: 1, L0595: 1 and S0011: 1.	3p23-p21	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373
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				H0169: 2, H0090: 2, H0413: 2, S0002: 2, L0372: 2, L0363: 2, L0768: 2, L0766: 2, S0374: 2, L0438: 2, H0547: 2, L0602: 2, L0743: 2, L0750: 2, L0780: 2, H0423: 2, H0422: 2, S0424: 2, H0265: 1, S0212: 1, S0444: 1, S0360: 1, H0733: 1, H0351: 1, H0270: 1, L0586: 1, H0635: 1, H0097: 1, H0421: 1, H0546: 1, H0399: 1, H0266: 1, H0615: 1, H0428: 1, H0553: 1, L0055: 1, H0673: 1, H0124: 1, H0708: 1, H0591: 1, H0040: 1, H0551: 1, H0488: 1, H0623: 1, H0561: 1, S0306: 1, S0438: 1, H0647: 1, S0344: 1, H0529: 1, L0506: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0646: 1, L0803: 1, L0375: 1, L0651: 1,	
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HOPKC80	1058174	878	240 - 980	3053	Pro-1 to Ser-6, Pro-25 to Cys-31, Arg-142 to Lys-150, Pro-223 to Arg-232.	L0776: 1, L0659: 1, L0793: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0693: 1, H0520: 1, H0519: 1, H0682: 1, H0658: 1, H0670: 1, S0330: 1, S0380: 1, H0696: 1, S0146: 1, H0631: 1, H0345: 1, S0027: 1, L0744: 1, S0260: 1, H0445: 1, H0707: 1, L0595: 1, L0366: 1, S0011: 1, H0668: 1, H0543: 1, L0697: 1, S0398: 1, S0452: 1 and H0352: 1.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
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HOCPT58	1058250	879	1 - 765	3054	Ala-3 to Val-8, Ser-97 to Leu-104, Asp-106 to Thr-113, Ala-124 to Ser-129, Pro-136 to Gly-152, Pro-156 to Leu-167, His-176 to His-182, Thr-188 to Ser-194, Pro-200 to Tyr-205, Arg-208 to Glu-214,	H0672: 2, S0392: 2, L0750: 2, L0752: 2, L0599: 2, H0295: 1, S0360: 1, S0410: 1, S0132: 1, H0549: 1, H0574: 1, L0021: 1, H0590: 1, H0085: 1, H0204: 1, H0150: 1, H0039: 1, H0617: 1, H0130: 1, L0764: 1, L0773: 1, L0648: 1, L0653: 1, L0657: 1, L0783: 1, L0383: 1, L0519: 1, L0791: 1, L0792: 1, L0663: 1, H0435: 1, H0659: 1, H0670: 1, H0696: 1, S0404: 1, S0406: 1, L0777: 1, L0759: 1 and S0434: 1.		
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Arg-239 to Gly-245.	L0774: 2, H0660: 2, S0378: 2, S3014: 2, L0751: 2, L0749: 2, L0779: 2, L0758: 2, L0759: 2, H0295: 1, H0583: 1, S0212: 1, H0484: 1, H0255: 1, S0442: 1, S0358: 1, S0444: 1, S0360: 1, H0549: 1, H0333: 1, L0622: 1, H0486: 1, T0060: 1, H0427: 1, L0021: 1, H0194: 1, H0309: 1, H0546: 1, H0050: 1, L0471: 1, H0051: 1, S0388: 1, H0399: 1, H0375: 1, H0252: 1, H0428: 1, H0039: 1, H0553: 1, H0163: 1, H0616: 1, H0087: 1, H0494: 1, H0714: 1, S0438: 1, S0440: 1, H0633: 1, H0646: 1, S0144: 1, S0002: 1, S0426: 1, L0639: 1, L5566: 1, L0772: 1, L0648: 1, L0386: 1, L0650: 1, L0653: 1, L0655: 1, L0657: 1, L0659: 1
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HPCTP25	1058287	880	3 - 1553	3055	Ser-89 to Met-94, Val-331 to Lys-339, Leu-344 to Met-350, Glu-386 to Tyr-394, Phe-480 to Gly-493.	L0789: 1, L0793: 1, L0664: 1, H0144: 1, H0593: 1, H0682: 1, H0670: 1, H0651: 1, S0330: 1, S0152: 1, H0521: 1, S0037: 1, S0027: 1, S0206: 1, L0743: 1, L0740: 1, L0747: 1, L0756: 1, H0595: 1 and H0653: 1.	1q22-q23	104770, 107300, 107670, 110700, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 159440, 159440, 159440, 173610, 176310, 186780, 191030, 191315,
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H0717: 1, S0114: 1, H0583: 1, S0212: 1, S0282: 1, H0661: 1, S0420: 1, S0358: 1, S0444: 1, S0408: 1, H0722: 1, S0046: 1, S0476: 1, H0431: 1, H0592: 1, H0587: 1, S0414: 1, T0114: 1, S0280: 1, H0156: 1, L0021: 1, L0105: 1, H0052: 1, H0050: 1, H0024: 1, H0014: 1, S0051: 1, H0083: 1, S6028: 1, H0292: 1, S0003: 1, H0328: 1, H0428: 1, H0032: 1, H0598: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0616: 1, S0038: 1, T0041: 1, T0042: 1, H0625: 1, H0561: 1, H0714: 1, S0438: 1, H0529: 1, L0769: 1, L0638: 1, L0667: 1, L0646: 1, L0764: 1, L0765: 1, L0662: 1, L0794: 1, L0649: 1, L0774: 1, L0805: 1, L0379: 1,	227400, 227400, 600923, 601412, 601652, 602491
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									L0656: 1, L0518: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0593: 1, H0689: 1, S0330: 1, S0004: 1, S0044: 1, H0694: 1, S0406: 1, H0478: 1, S3014: 1, S0032: 1, UNKWN: 1, L0749: 1, L0758: 1, S0031: 1, S0260: 1, L0608: 1 and H0667: 1.			
HODKM52	1058305	881	13 - 999	3056	Arg-1 to Val-6.				H0059: 6, H0370: 5, L0646: 2, L0754: 2, H0664: 1, S0376: 1, H0156: 1, H0615: 1, H0688: 1, H0030: 1, H0494: 1, L0764: 1, L0662: 1, L0664: 1, H0682: 1 and H0666: 1.			
HCONB89	1058316	882	1 - 1302	3057				8p22-p21.3	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629			

HSABJ44	1058413	883	11 - 925	3058	<p>Gly-1 to Lys-10, Glu-29 to His-36, Gly-43 to Asn-63, Ala-74 to Leu-84, Leu-132 to Asn-142, Pro-189 to Pro-194, Asp-196 to Ser-209, Pro-252 to Gly-268, Thr-271 to Lys-278, Pro-292 to Gln-300.</p>	<p>L0777: 9, L0751: 8, H0046: 5, H0550: 4, L0665: 4, H0521: 4, L0750: 4, H0623: 3, H0435: 3, H0658: 3, S0436: 3, S0212: 2, H0580: 2, H0619: 2, T0039: 2, H0427: 2, H0266: 2, S0438: 2, L0772: 2, L0659: 2, L0666: 2, L0663: 2, S0374: 2, S0152: 2, H0696: 2, H0555: 2, L0749: 2, L0731: 2, L0758: 2, L0596: 2, L0599: 2, S0192: 2, H0685: 1, S0040: 1, H0717: 1, S0116: 1, H0483: 1, H0255: 1, H0661: 1, H0663: 1, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0728: 1, L0717: 1, H0586: 1, H0618: 1, H0318: 1, H0263: 1, H0544: 1, H0510: 1, H0290: 1, S0368: 1, H0424: 1, H0553: 1, H0606: 1, H0032: 1, H0316: 1, H0634: 1,</p>	12p13	<p>103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096</p>
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HBPND88	1058432	884	1 - 1128	3059	Ala-2 to Gly-8, Tyr-12 to Pro-26, Gly-102 to Asn-107, Ala-113 to Asp-122, Arg-130 to Val-135, Glu-142 to Lys-150, Asn-189 to Ala-195, Ala-221 to His-228, Gln-248 to Ser-260, Ser-272 to Gly-283, Leu-321 to Glu-329, Cys-336 to Gly-344,	H0551: 1, H0268: 1, H0494: 1, H0646: 1, S0426: 1, H0529: 1, L0501: 1, L0769: 1, L0646: 1, L0764: 1, L0773: 1, L0662: 1, L0649: 1, L0803: 1, L0375: 1, L0784: 1, L0776: 1, L0807: 1, L0783: 1, L0790: 1, H0693: 1, H0670: 1, H0672: 1, H0539: 1, S0350: 1, H0522: 1, S3014: 1, S0032: 1, L0748: 1, L0754: 1, L0780: 1, L0752: 1, H0595: 1, H0665: 1 and S0242: 1.	10q22-q27	126090, 129010, 142600, 250850, 601386, 601493
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Ala-358 to Gly-367.	L0806: 3, L0509: 3, L0776: 3, L0809: 3, L0666: 3, L0665: 3, S0328: 3, H0445: 3, L0596: 3, S0026: 3, L0600: 3, S0358: 2, S0376: 2, S0444: 2, H0083: 2, S0210: 2, L0761: 2, L0372: 2, L0764: 2, L0774: 2, L0654: 2, L0382: 2, H0435: 2, H0648: 2, L0759: 2, H0444: 2, L0608: 2, H0685: 1, L0785: 1, H0341: 1, S0212: 1, H0255: 1, H0661: 1, H0664: 1, H0662: 1, S0418: 1, S0420: 1, S0442: 1, S0408: 1, S0410: 1, H0393: 1, H0431: 1, H0392: 1, H0331: 1, L0622: 1, T0114: 1, T0109: 1, H0427: 1, L0021: 1, T0082: 1, H0530: 1, H0546: 1, H0545: 1, S0051: 1, H0030: 1, H0031: 1, H0032: 1, H0169: 1, H0674: 1, H0212: 1.
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H6EEO05	1058438	885	67 - 1527	3060			S0364: 1, H0040: 1, H0087: 1, T0067: 1, H0412: 1, H0413: 1, H0102: 1, H0494: 1, S0440: 1, S0422: 1, L0762: 1, L0640: 1, L0770: 1, L0638: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0363: 1, L0364: 1, L0381: 1, L0388: 1, L0803: 1, L0804: 1, L0775: 1, L0512: 1, L0383: 1, S0374: 1, H0691: 1, H0547: 1, H0519: 1, H0690: 1, H0658: 1, H0696: 1, S0037: 1, S0206: 1, L0745: 1, L0752: 1, L0758: 1, S0434: 1, L0592: 1, L0594: 1, L0595: 1, L0362: 1, L0603: 1, L0097: 1 and S0384: 1.		
							Arg-29 to Ser-35, Ser-79 to Gly-91, Pro-105 to Arg-120, Thr-168 to Glu-175, Phe-187 to Ala-200, Arg-272 to I vs-282	10	L0748: 11, L0747: 9, L0749: 7, L0439: 6, L0599: 5, L0779: 4, L0757: 4, L0758: 4, L0662: 3, L0766: 3, L0774: 3, L0659: 3

Arg-325 to Asp-330,	L0751: 3, L0750: 3,
Arg-332 to Phe-338,	S0358: 2, H0431: 2,
Arg-358 to Lys-368,	H0622: 2, L0637: 2,
Cys-433 to Asn-441,	L0375: 2, L0776: 2,
Leu-456 to Asp-461.	L0666: 2, H0648: 2,
	H0672: 2, S3014: 2,
	L0741: 2, L0740: 2,
	L0731: 2, T0002: 1,
	S0040: 1, S6024: 1,
	S0116: 1, H0664: 1,
	S0418: 1, S0360: 1,
	S0046: 1, L0717: 1,
	S6016: 1, H0331: 1,
	H0632: 1, H0559: 1,
	H0486: 1, H0013: 1,
	S0010: 1, H0318: 1,
	S0049: 1, H0434: 1,
	L0041: 1, L0471: 1,
	S0362: 1, H0051: 1,
	S0388: 1, S6028: 1,
	H0266: 1, H0687: 1,
	H0615: 1, S0364: 1,
	H0551: 1, H0272: 1,
	S0038: 1, H0100: 1,
	L0351: 1, H0560: 1,
	S0438: 1, H0509: 1,
	H0652: 1, S0142: 1,
	S0344: 1, S0426: 1,
	L0769: 1, L0638: 1,
	I 0667: 1 I 0373: 1

HFIVR61	1058451	886	157 - 777	3061	Pro-27 to Lys-32, Pro-37 to Ser-44, Glu-46 to Gln-51, Arg-63 to Asn-71, Gln-125 to Ala-135, Gln-150 to Asn-155.	L0372: 1, L0764: 1, L0771: 1, L0648: 1, L0521: 1, L0363: 1, L0803: 1, L0650: 1, L0775: 1, L0788: 1, L0664: 1, H0660: 1, L0743: 1, L0753: 1, L0480: 1, L0595: 1 and S0460: 1.	7p21	153880, 601622, 601649
						AR096: 10, AR089: 8, AR039: 7, AR061: 7, AR053: 6, AR052: 5, AR033: 5, AR060: 3, AR104: 3, AR055: 3 S0242: 271, S0196: 77, H0551: 32, S0003: 13, H0634: 11, H0635: 10, H0250: 7, H0069: 7, L0757: 6, H0486: 5, H0623: 5, H0386: 4, S0418: 2, H0411: 2, S0214: 2, H0628: 2, L0649: 2, L0803: 2, L0789: 2, H0265: 1, H0556: 1, H0140: 1, S0040: 1, S0298: 1, H0638: 1, S0376: 1, H0637: 1, S0046: 1, H0431: 1, H0461: 1, L0021: 1, H0318: 1,		

HVVBX28	1058458	887	2 - 493	3062	H0123: 1, H0200: 1, H0109: 1, H0615: 1, H0111: 1, S0015: 1, L0800: 1, L0644: 1, L0766: 1, L0804: 1, L0633: 1, S0126: 1 and L0780: 1.	21q22.1- q22.2	147450, 176261, 253270, 601399
					L0748: 13, L0731: 13, L0749: 7, L0744: 6, L0438: 5, L0740: 5, L0768: 3, L0747: 3, L0758: 3, S0360: 2, L0717: 2, S0022: 2, L0638: 2, H0547: 2, L0743: 2, L0439: 2, L0754: 2, L0604: 2, H0656: 1, H0013: 1, H0427: 1, H0098: 1, S0010: 1, H0014: 1, H0687: 1, H0163: 1, H0561: 1, H0509: 1, H0652: 1, H0538: 1, L0598: 1, L0770: 1, L0769: 1, L0637: 1, L0771: 1, L0363: 1, L0381: 1, L0375: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0144: 1, H0670: 1, H0672: 1, S0146: 1		

								H0555: 1, L0750: 1, L0756: 1, L0777: 1, L0753: 1, L0755: 1, L0757: 1, L0759: 1, L0597: 1 and S0276: 1.			
HVVB138	1058475	888	258 - 2291	3063	Pro-27 to Lys-35.			AR089: 2, AR096: 2, AR060: 1, AR053: 1, AR061: 1, AR033: 0, AR055: 0, AR104: 0, AR039: 0 S0358: 5, H0596: 2, H0059: 2, S0354: 1, H0263: 1, L0738: 1, L0639: 1, L0764: 1, L0767: 1, L0768: 1, L0659: 1, S0374: 1, H0660: 1, H0672: 1, S0380: 1 and L0731: 1.			
HUKEJ46	1058539	889	242 - 1165	3064				L0655: 10, L0664: 9, L0751: 8, H0521: 7, S0360: 5, H0486: 5, L0777: 4, H0657: 3, H0638: 3, H0087: 3, L0763: 3, L0743: 3, L0748: 3, L0599: 3, H0662: 2, H0637: 2, H0581: 2, H0090: 2, L0768: 2, L0651: 2, L0653: 2, L0659: 2,	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261,		
HDTFT47	1058588	890	2 - 274	3065	Trp-1 to Glu-9, Thr-29 to Val-35, Arg-73 to Thr-79.				6p21.3		

				L0665: 2, H0659: 2, H0648: 2, L0755: 2, H0445: 2, H0650: 1, H0656: 1, L0808: 1, H0254: 1, H0255: 1, H0669: 1, H0663: 1, H0402: 1, S0358: 1, H0580: 1, H0586: 1, T0060: 1, H0250: 1, H0069: 1, H0318: 1, H0085: 1, H0051: 1, H0271: 1, H0252: 1, H0644: 1, H0182: 1, H0598: 1, H0591: 1, H0063: 1, H0272: 1, H0646: 1, S0426: 1, L0371: 1, L0638: 1, L0639: 1, L0761: 1, L0372: 1, L0643: 1, L0374: 1, L0771: 1, L0773: 1, L0648: 1, L0662: 1, L0767: 1, L0766: 1, L0549: 1, L0774: 1, L0375: 1, L0378: 1, L0776: 1, L0606: 1, L0657: 1, L0518: 1, L0782: 1, L0809: 1, L0666: 1, L0663: 1, H0684: 1, H0670: 1, S0044: 1	177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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HSSFS71	1058596	891	2 - 499	3066	Glu-42 to Leu-48, His-56 to Cys-62, Ala-107 to Pro-119.	H0555: 1, L0741: 1, L0744: 1, L0731: 1, H0595: 1 and H0543: 1. AR055: 18, AR033: 9, L14q32.3 AR096: 5, AR104: 5, AR089: 4, AR060: 4, AR052: 2, AR039: 2, AR061: 2, AR053: 1 H0617: 22, H0424: 13, L0439: 12, H0618: 9, H0658: 9, L0751: 9, H0265: 8, L0666: 7, S0126: 7, S0046: 6, S0222: 6, H0031: 6, L0803: 6, L0731: 6, H0009: 5, L0769: 5, L0758: 5, S0420: 4, H0370: 4, L0163: 4, H0553: 4, H0135: 4, L0805: 4, L0657: 4, L0809: 4, L0779: 4, H0483: 3, H0150: 3, H0266: 3, L0663: 3, H0670: 3, L0755: 3, H0717: 2, L0415: 2, H0661: 2, S0444: 2, S0045: 2, H0549: 2, H0486: 2, H0156: 2, H0599: 2, S0049: 2, H0373: 2, T0010: 2,	
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HSDJH63	1058612	892	153 - 1358	3067	Thr-17 to Lys-23, Lys-93 to Arg-98.	AR039: 28, AR053: 20, AR055: 19, AR033: 17, AR052: 16, AR089: 15, AR104: 12, AR061: 12, AR096: 11, AR060: 11 H0615: 2, L0766: 2, S0114: 1, H0650: 1,					

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HAHGD24	1058622	893	2 - 1027	3068	Pro-17 to Arg-25, Ala-61 to Trp-72, Gln-96 to Pro-111, Gln-210 to Pro-215.		L0666: 3, L0657: 2, H0689: 2, H0555: 2, L0751: 2, S0001: 1, S0360: 1, H0675: 1, S0132: 1, H0549: 1, S0222: 1, H0333: 1, T0114: 1, H0599: 1, L0022: 1, H0594: 1, H0688: 1, S0364: 1, H0100: 1, H0561: 1, S0382: 1, L0637: 1, L0761: 1, L0649: 1, L0788: 1, L0789: 1, L0665: 1, H0547: 1, H0690: 1, H0658: 1, H0660: 1, H0672: 1, H0539: 1, H0696: 1, L0743: 1, L0754: 1 and L0780: 1.			
HTAEV85	1058723	894	426 - 238	3069			H0052: 20, H0264: 5, H0194: 4, T0010: 4, H0435: 4, H0436: 4, H0543: 4, S0222: 3, L0439: 3, H0069: 2, H0618: 2, H0581: 2, H0012: 2, H0617: 2, H0087: 2, S0038: 2,			

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HPMME44	1058928	895	9 - 338	3070			H0265: 1, H0050: 1, H0644: 1, S0150: 1, H0521: 1, H0542: 1 and S0424: 1.		
HEEAZ17	1058949	896	2184 - 2426	3071			L0758: 7, L0666: 5, L0749: 4, L0779: 4, H0620: 3, L0540: 3, L0439: 3, L0750: 3, L0731: 3, L0759: 3, S0360: 2, L0763: 2, L0770: 2, L0803: 2, L0775: 2, L0805: 2, L0776: 2, L0665: 2, L0743: 2, L0747: 2,		

HSPSG28	1058977	897	474 - 1679	3072	Asp-33 to Arg-39, Ala-43 to Leu-48, Glu-256 to Gln-266, Gly-305 to Ile-311, Pro-314 to Ala-320, Gln-388 to Asn-394.	L0756: 2, S0040: 1, H0662: 1, S0045: 1, H0549: 1, H0550: 1, H0370: 1, T0060: 1, L0022: 1, H0615: 1, H0135: 1, H0488: 1, H0623: 1, H0059: 1, H0022: 1, L0520: 1, L0640: 1, L0769: 1, L0772: 1, L0662: 1, L0768: 1, L0766: 1, L0804: 1, L0774: 1, L0655: 1, L0809: 1, L4501: 1, L0663: 1, L0664: 1, H0144: 1, H0547: 1, S0330: 1, H0539: 1, H0696: 1, L0744: 1, L0748: 1, L0751: 1 and L0757: 1.	17q23-q25	106180, 114290, 138033, 138700, 139250, 150200, 154275, 162100, 170500, 170500, 170500,
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HTGFW12	1059006	898	2 - 1450	3073	Gly-1 to Leu-6.	H0683: 1, H0435: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0152: 1, S0350: 1, H0522: 1, H0576: 1, L0612: 1, L0741: 1, L0748: 1, L0756: 1, S0434: 1, L0596: 1, L0599: 1, S0011: 1, H0668: 1, H0653: 1, H0667: 1, H0136: 1, S0192: 1, S0276: 1 and H0422: 1.		
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HOFMT75	1059050	899	1 - 465	3074	Ala-18 to Gly-23.	L0750: 1, L0779: 1, L0780: 1, L0755: 1, L0758: 1, L0759: 1, S0260: 1, H0445: 1, S0434: 1, L0593: 1, S0192: 1, S0194: 1, H0423: 1, S0424: 1 and H0506: 1. AR039: 2, AR089: 1, AR060: 1, AR033: 1, AR096: 0, AR061: 0, AR053: 0, AR055: 0, AR104: 0 H0415: 1 and L0751: 1.	11p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071,
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HARNB17	1059085	900	241 - 501	3075	Arg-1 to Gly-6.	AR089: 7, AR053: 7, AR060: 5, AR039: 5, AR096: 5, AR104: 5, AR033: 5, AR055: 4, AR061: 2 L0439: 7, L0803: 6, L0599: 3, S0360: 2, L0794: 2, H0659: 2, L0747: 2, H0423: 2, H0662: 1, L0717: 1, H0351: 1, H0592: 1, H0085: 1, H0674: 1, H0551: 1, S0422: 1, L0761: 1, L0372: 1, L0767: 1, L0653: 1, L0776: 1, L0659: 1, H0144: 1, H0651: 1, H0436: 1, S0432: 1, L0740: 1, L0754: 1, L0779: 1, L0780: 1, L0731: 1, S0436: 1 and S0026: 1.		
HPDRG65	1059102	901	437 - 285	3076		H0658: 2		
HAOSG15	1059145	902	1 - 1776	3077		L0754: 23, L0747: 19, 2		

	H0584: 18, L0731: 17, S0372: 16, L0766: 14, L0740: 12, L0749: 12, L0752: 12, S0358: 11, L0750: 11, S0360: 9, H0013: 9, S0003: 9, H0341: 8, S0420: 8, H0038: 8, H0144: 8, L0593: 8, H0040: 7, L0665: 7, L0755: 7, L0757: 7, L0591: 7, L0608: 7, L0438: 6, L0439: 6, L0759: 6, S0026: 6, S0424: 6, H0052: 5, L0748: 5, L0751: 5, L0777: 5, L0758: 5, L0362: 5, H0543: 5, H0556: 4, H0663: 4, H0333: 4, H0545: 4, H0266: 4, H0591: 4, L0771: 4, L0774: 4, L0776: 4, L0666: 4, H0521: 4, L0745: 4, L0588: 4, L0594: 4, H0140: 3, H0686: 3, S0007: 3, S0045: 3, H0411: 3, S0222: 3, H0431: 3, H0575: 3, L0471: 3, T0003: 3, S6028: 3				
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HHEND31	1059180	903	76 - 1827	3078	Asn-1 to Gln-6, Thr-71 to Ala-77, Cys-114 to Ser-126, Pro-147 to Tyr-156, Gly-176 to Gly-182.		AR089: 4, AR039: 3, AR033: 2, AR096: 2, AR104: 2, AR060: 2, AR053: 2, AR061: 1, AR055: 0 S0040: 1, S0114: 1, H0412: 1, S0386: 1, S0472: 1, L0649: 1, L0803: 1, S0053: 1, L0748: 1 and H0543: 1.		
HBMSN62	1059186	904	1000 - 1254	3079	Pro-6 to Lys-19.		L0754: 4, L0766: 3, L0803: 3, H0648: 3, L0758: 3, L0800: 2, L0775: 2, L0666: 2, L0747: 2, L0779: 2, S0116: 1, S0358: 1, H0574: 1, L0021: 1, L0022: 1, S0003: 1, H0615: 1, L0351: 1,		

							L0667: 1, L0764: 1, L0768: 1, L0806: 1, L0379: 1, L0659: 1, L0647: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, S0330: 1, L0748: 1, L0439: 1, L0777: 1 and L0599: 1.		
HOVCJ46	1059241	905	2 - 358	3080	Ser-38 to Gly-43, Gln-80 to Ile-93, Leu-104 to Arg-109.		L0769: 6, L0757: 5, L0777: 3, L0731: 3, H0428: 2, L0809: 2, S0404: 2, L0748: 2, L0758: 2, H0575: 1, H0251: 1, H0085: 1, H0644: 1, H0646: 1, L0773: 1, L0662: 1, L0768: 1, L0775: 1, L0782: 1, L0783: 1, L0384: 1, S0126: 1, L0747: 1, L0749: 1 and L0779: 1.		
HWLEP14	1059394	906	32 - 1348	3081	Pro-11 to Arg-21, Gly-34 to Ser-41, Pro-65 to Asn-72, Ser-80 to Gln-85, Phe-124 to Cys-129.		AR089: 2, AR053: 2, AR061: 2, AR039: 2, AR060: 2, AR096: 1, AR033: 1, AR055: 1, AR104: 1, AR052: 0 L0664: 3, S0354: 2, H0617: 2, L0509: 2, H0670: 2, L0601: 2,		

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HTFNO73	1059415	907	802 - 491	3082	Gly-1 to Asn-7, Lys-12 to Glu-20, Asn-34 to Gly-41, Val-79 to Asn-88.		AR096: 2, AR089: 1, AR055: 1, AR033: 0, AR060: 0, AR061: 0, AR052: 0, AR104: 0, AR053: 0 H0666: 15, H0622: 5, L0809: 3, L0731: 2, H0586: 1, H0032: 1, H0488: 1, L3905: 1, L0766: 1, L0803: 1, L0804: 1, L0656: 1, L0659: 1, H0648: 1, L0779: 1, L0777: 1, L0758: 1, L0759: 1, H0707: 1, S0424: 1 and H0506: 1.		
HDABR73	1059532	908	382 - 1191	3083	Ser-1 to Trp-7, Asp-47 to Ile-52, Pro-70 to Ser-80, Cys-89 to Thr-98, Ala-131 to Ser-142, Phe-169 to Cys-176, Gly-183 to Ser-193, Phe-202 to Pro-209, Arg-243 to Ala-249, Ser-256 to Lys-265.		H0494: 21, H0529: 16, L0755: 16, S0358: 15, H0435: 13, L0665: 11, L0747: 11, L0752: 11, H0521: 10, L0649: 9, S0360: 8, L0662: 8, L0659: 8, L0601: 8, S0354: 7, L0754: 7, H0663: 6, S0376: 6, S0444: 6, H0592: 6,	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716

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HOGA124	1059626	909	169 - 1698	3084	Gln-37 to Arg-58, Arg-75 to Met-87, Lys-113 to Asn-123,	H0560: 1, H0625: 1, S0466: 1, S0150: 1, S0472: 1, S0144: 1, S0002: 1, L0640: 1, L0770: 1, L0761: 1, L0372: 1, L0764: 1, L0363: 1, L0364: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0493: 1, L0636: 1, L0383: 1, L0663: 1, H0693: 1, H0520: 1, H0547: 1, S0126: 1, H0690: 1, H0682: 1, H0683: 1, H0684: 1, H0659: 1, H0648: 1, H0672: 1, S0330: 1, S0152: 1, S0350: 1, S0392: 1, S0432: 1, L0741: 1, L0751: 1, L0745: 1, L0757: 1, S0436: 1, L0592: 1, L0599: 1, L0361: 1, L0603: 1, H0423: 1, S0460: 1, S0446: 1 and L0600: 1.		
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Arg-148 to Tyr-155, Ser-158 to Gly-165, Ala-168 to Lys-178, His-215 to Ile-221, Ser-236 to Tyr-241, Ala-278 to Gly-287, Gly-294 to Asp-299, Glu-306 to Ser-313, Ser-374 to Arg-382, Ala-411 to Pro-416, Cys-423 to Arg-430, Thr-452 to Cys-462, Glu-479 to Glu-499, Gly-501 to Gly-507.	L0438: 4, H0264: 3, H0265: 2, H0261: 2, S0222: 2, T0010: 2, L0770: 2, L0764: 2, L0648: 2, H0547: 2, H0682: 2, H0672: 2, L0748: 2, L0756: 2, S0031: 2, H0423: 2, H0556: 1, H0295: 1, S0134: 1, S0282: 1, H0255: 1, H0661: 1, H0663: 1, S0356: 1, S0360: 1, H0619: 1, L0717: 1, S6014: 1, H0415: 1, H0643: 1, H0486: 1, H0156: 1, H0618: 1, S0010: 1, H0581: 1, S0049: 1, H0457: 1, H0050: 1, H0012: 1, H0320: 1, H0354: 1, H0271: 1, L0140: 1, H0063: 1, H0272: 1, H0494: 1, H0646: 1, L0761: 1, L0644: 1, L0771: 1, L0774: 1, L0788: 1, H0698: 1, H0593: 1, H0658: 1, H0648: 1, S0328: 1, S0330: 1, H0518: 1, L0744: 1,				
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							L0439: 1, L0749: 1, L0758: 1, L0759: 1 and S0260: 1.			
HTJMV05	1059692	910	2 - 685	3085			H0083: 17, H0556: 14, H0265: 7, L0794: 6, H0271: 5, H0543: 5, L0766: 4, L0809: 4, H0436: 3, H0635: 2, H0150: 2, S0114: 1, H0650: 1, H0645: 1, S0222: 1, H0438: 1, H0594: 1, H0416: 1, H0615: 1, H0033: 1, H0087: 1, H0488: 1, S0440: 1, S0142: 1, L0764: 1, L0803: 1, L0655: 1, L0657: 1, L0656: 1, L0659: 1, L0783: 1, L0790: 1, L0663: 1, L0665: 1, S0216: 1, H0670: 1, L0758: 1, H0595: 1, H0542: 1, H0423: 1 and H0422: 1.			
HOOIL70	1059710	911	134 - 1996	3086	Pro-19 to Ala-24, Pro-57 to Asp-64, Pro-125 to His-138, Ser-177 to Ala-182, Asn-257 to Ala-266, Glu-275 to Asn-284,		L0749: 6, L0761: 4, H0657: 3, S0142: 3, L0766: 3, L0655: 3, L0777: 3, L0599: 3, H0556: 2, S0358: 2, H0457: 2, L0769: 2,	12p13	103950, 120580, 131440, 139130, 142680, 176260.	

					Arg-288 to Lys-303, Pro-340 to Lys-345, Arg-378 to Cys-387, His-411 to Arg-419, Ile-462 to Ser-468, Gln-553 to Ile-565, Lys-577 to Val-589, His-594 to Lys-621.	L0794: 2, L0499: 2, L0653: 2, L0776: 2, L0659: 2, H0648: 2, H0521: 2, H0555: 2, L0747: 2, L0750: 2, H0445: 2, H0650: 1, H0656: 1, H0255: 1, S0356: 1, S0140: 1, L0717: 1, S0278: 1, S0280: 1, H0274: 1, H0050: 1, H0015: 1, H0083: 1, H0688: 1, H0606: 1, H0124: 1, T0067: 1, S0002: 1, S0426: 1, L0763: 1, L0772: 1, L0771: 1, L0784: 1, L0629: 1, L0382: 1, L0663: 1, L0665: 1, H0689: 1, H0672: 1, H0522: 1, H0436: 1, L0780: 1, L0752: 1, L0731: 1 and H0422: 1.		190450, 200990, 216950, 600228, 600414, 600618, 602096
HUNAE87	1059743	912	146 - 955	3087	Asn-1 to Asp-6, Pro-16 to Gly-22, Tyr-28 to Glu-34, Thr-44 to Val-57, Arg-96 to Pro-106, Leu-118 to His-123, Pro-125 to Ser-146,	L0748: 19, L0754: 15, H0046: 13, L0751: 10, H0013: 8, S0152: 8, H0623: 7, H0644: 6, L0662: 6, L0666: 6, L0438: 6, L0740: 6, L0747: 6, S0358: 5,	11q11	106100

[illegible]

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HTPHO01	1059764	913	2 - 1081	3088	Pro-81 to Lys-89, Cys-91 to Leu-100, Asp-103 to Ile-110, Pro-179 to Pro-184, Arg-194 to Met-199, Pro-203 to Arg-213, Pro-249 to Ala-262, Ser-274 to Glu-279, Asp-301 to Trp-309, Pro-335 to Ser-343.	H0008: 1, AR096: 5, AR055: 3, AR089: 3, AR061: 3, AR053: 2, AR033: 2, AR060: 2, AR039: 1, AR104: 1, AR052: 0 H0599: 25, L0731: 19, L0750: 14, L0754: 13, L0766: 8, L0776: 8, L0752: 8, L0757: 8, L0747: 6, L0744: 5, L0769: 4, L0779: 4, L0777: 4, S0420: 3, L0770: 3, L0755: 3, L0758: 3, L0471: 2, L0771: 2, L0775: 2, L0806: 2, L0659: 2, S0126: 2, H0670: 2, L0743: 2, L0759: 2, L0604: 2, H0624: 1, H0685: 1, H0650: 1, H0484: 1, H0483: 1, H0661: 1, S0358: 1, S0360: 1, S0046: 1, H0411: 1, H0632: 1, H0427: 1, S0280: 1, H0097: 1, H0004: 1, S0049: 1, H0024: 1, H0028: 1, H0622: 1, L0142: 1, H0708: 1,	3q13.3-q21	106165, 117700, 117700, 126451, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682
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HDPWK69	1059784	914	206 - 496	3089			S0001: 1, H0125: 1, H0580: 1, H0581: 1, H0457: 1, H0428: 1, L0627: 1, H0521: 1 and L0749: 1.			
HPCOK03	1059849	915	8 - 1267	3090	Asp-19 to Ile-26, Lys-86 to Leu-96, Pro-108 to Leu-119, Ser-121 to Gln-144, Ser-243 to Ala-251, Pro-299 to Thr-305, Asn-349 to Ser-359, Leu-381 to Pro-389, Asn-403 to Ser-420.	L0748: 19, L0758: 6, L0794: 5, L0766: 5, L0749: 4, H0038: 3, H0494: 3, L0771: 3, H0520: 3, H0288: 2, H0551: 2, L0665: 2, L0438: 2, H0547: 2, H0659: 2, L0591: 2, L0595: 2, H0177: 1, S0418: 1, S0046: 1, H0393: 1, L0717: 1, H0370: 1, T0039: 1, T0114: 1, H0318: 1,	20q13.2- q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235		

HVVBP14	1059852	916	3 - 935	3091	Pro-26 to Ser-35, Lys-46 to Arg-63, Ile-71 to Asp-76, Lys-105 to Ile-115, Glu-119 to Tyr-125, His-136 to His-141, Leu-148 to Arg-154, Thr-165 to Glu-170, Asp-194 to Gly-201, Glu-216 to Pro-222, Ser-227 to Phe-232, Arg-236 to Glu-248, Glu-271 to Lys-282, Ala-297 to Leu-311.	T0110: 1, H0553: 1, H0412: 1, H0413: 1, H0623: 1, S0112: 1, T0042: 1, H0529: 1, L0369: 1, L0769: 1, L0646: 1, L0800: 1, L0805: 1, L0655: 1, L0657: 1, L0787: 1, L0789: 1, H0702: 1, H0684: 1, H0648: 1, S0152: 1, H0522: 1, H0626: 1, L0751: 1, L0747: 1, L0777: 1, L0608: 1, H0668: 1 and H0667: 1.	11p13	102772, 106210, 106210, 106210, 106210, 106210, 107271, 114550, 115500, 136530, 151390, 179615, 179615, 179616, 180385, 194070,

				H0575: 3, H0031: 3, H0068: 3, H0509: 3, L0665: 3, H0658: 3, S0406: 3, S0027: 3, L0439: 3, L0751: 3, L0745: 3, L0749: 3, L0750: 3, L0779: 3, L0753: 3, L0758: 3, H0171: 2, T0049: 2, H0663: 2, S0418: 2, S0356: 2, S0358: 2, H0632: 2, H0486: 2, L0477: 2, T0039: 2, H0013: 2, H0421: 2, H0544: 2, H0023: 2, S0022: 2, S0214: 2, H0615: 2, H0553: 2, H0032: 2, H0135: 2, H0591: 2, H0264: 2, H0412: 2, H0647: 2, L0659: 2, L0540: 2, L0783: 2, L0530: 2, L0789: 2, L0663: 2, L0664: 2, H0144: 2, S0374: 2, H0682: 2, H0435: 2, H0672: 2, S3012: 2, L0752: 2, S0434: 2, L0592: 2, L0581: 2, S0026: 2, S0194: 2, S0424: 2,	194070, 194070, 245349
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L0411: 1, H0556: 1, T0002: 1, H0685: 1, S0040: 1, H0295: 1, H0341: 1, H0661: 1, S0354: 1, S0408: 1, T0008: 1, S0132: 1, H0393: 1, H0640: 1, H0411: 1, H0437: 1, H0549: 1, H0550: 1, S0222: 1, H0431: 1, H0455: 1, H0559: 1, H0485: 1, H0599: 1, S0010: 1, H0309: 1, H0596: 1, L0738: 1, H0545: 1, H0150: 1, H0123: 1, H0620: 1, H0024: 1, H0266: 1, T0006: 1, H0644: 1, L0142: 1, H0628: 1, L0455: 1, S0015: 1, H0560: 1, H0561: 1, S0440: 1, H0641: 1, S0142: 1, L0598: 1, H0529: 1, L0770: 1, L0639: 1, L0637: 1, L0374: 1, L0521: 1, L0794: 1, L0766: 1, L0784: 1, L0806: 1, L0655: 1, L0526: 1, L0519: 1, L0529: 1					
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HOOJC15	1059967	917	1077 - 298	3092				L0747: 4, L0764: 3, H0648: 3, H0624: 2, H0673: 2, L0665: 2, L0748: 2, L0758: 2, H0171: 1, H0556: 1, H0351: 1, L0021: 1, H0318: 1, H0545: 1, H0354: 1, H0616: 1, L0763: 1, L0769: 1, L0667: 1, L0773: 1, L0766: 1, L0804: 1, L0659: 1, L0666: 1,				

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HODFG47	1059969	918	182 - 1213	3093		Gln-1 to Leu-9, Thr-21 to Phe-26, Leu-49 to Arg-62, Thr-114 to Asp-120, Arg-132 to Ser-140, Gln-148 to Trp-155, Pro-192 to Asn-198, Lys-235 to Asp-241, Tyr-256 to Trp-266, Ile-273 to Glu-283, Ser-297 to Lys-304, Val-326 to Val-331.	S0003: 3, L0776: 2, S0040: 1, H0587: 1, S0010: 1, H0328: 1, H0615: 1, H0551: 1, T0042: 1, H0494: 1, L0657: 1, H0519: 1, S0328: 1, H0539: 1, L0758: 1, L0608: 1 and S0194: 1.		
HBIPC05	1060137	919	2 - 265	3094		Pro-19 to Glu-24, Ala-66 to Arg-71, Pro-81 to Tyr-88.	H0617: 2, H0618: 1, S0052: 1 and H0593: 1.		
HOPJJ32	1060193	920	447 - 635	3095		Lys-30 to Phe-36.	L0766: 1, H0684: 1 and H0542: 1.	7p22	600259, 600259
HNOBN20	1060382	921	1380 - 1282	3096			H0615: 2, H0580: 1, H0024: 1, H0428: 1, L0804: 1, H0670: 1, H0651: 1 and L0756: 1.		
HOCPIX74	1060391	922	3 - 1514	3097		Gly-18 to Glu-23.	H0650: 1, H0656: 1, H0618: 1, H0290: 1, H0551: 1, H0477: 1, S0450: 1, H0547: 1,		

							H0684: 1, H0660: 1, H0555: 1, L0741: 1, L0751: 1 and H0543: 1.		
HTEPP27	1060415	923	12 - 605	3098	Ala-67 to Tyr-72, Glu-75 to Asn-81, Glu-176 to Lys-187.		L0766: 7, L0803: 5, L0809: 5, L0779: 5, L0756: 4, S0380: 3, L0439: 3, L0759: 3, S0442: 2, H0031: 2, H0591: 2, H0616: 2, L0789: 2, L0438: 2, L0754: 2, L0755: 2, L0731: 2, L0758: 2, H0171: 1, H0657: 1, L2250: 1, H0024: 1, H0169: 1, H0372: 1, L0769: 1, L0637: 1, L0774: 1, L0805: 1, L0776: 1, L0527: 1, L0666: 1, S0374: 1, L0352: 1, H0547: 1, H0670: 1, H0660: 1, H0648: 1, H0539: 1, H0522: 1, L0748: 1, L0752: 1, H0445: 1, H0667: 1 and H0543: 1.		
HLYAJ79	1060495	924	218 - 292	3099	Lys-10 to Ser-19.		S0388: 5, H0594: 4, S0282: 3, H0598: 3, S0344: 3, S0136: 3, H0395: 2, S0280: 2, H0597: 2, S0194: 2,	17p13.3	113721, 247200, 600059, 601545

HCOOQ11	1060656	925	868 - 785	3100		H0543: 2, H0510: 1, H0316: 1, S0036: 1, H0538: 1, S0260: 1, H0445: 1, H0595: 1 and S0412: 1.	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280,
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HWMGI51	1060711	926	1 - 618	3101		Tyr-23 to Arg-29, Gln-57 to Cys-65, Cys-164 to Trp-169.		L0805: 9, L0776: 8, H0585: 7, L0731: 7, L0751: 3, L0747: 3, S0282: 2, H0606: 2, H0038: 2, L0769: 2, L0803: 2, L0809: 2, H0690: 2, L0777: 2, L0752: 2, L0758: 2, L0601: 2, H0170: 1, S0358: 1, S0360: 1, S0007: 1, S0476: 1, S0278: 1, H0370: 1, H0559: 1, L0622: 1, L0623: 1, T0114: 1, H0427: 1, L0021: 1, H0204: 1, H0086: 1, H0178: 1, S0051: 1, H0688: 1, H0213: 1, H0163: 1, H0087: 1, H0494: 1, S0440: 1, L0535: 1, L3904: 1, L0764: 1, L0662: 1, L0794: 1, L0774: 1, L0375: 1, L0376: 1, L0657: 1, L0526: 1, L0783: 1, L0383: 1, L0787: 1, H0144: 1		

							H0660: 1, H0696: 1, S0044: 1, L0740: 1, L0750: 1, L0780: 1, S0436: 1, H0667: 1, H0423: 1 and S0424: 1.			
HDPJG33	1060780	927	555 - 863	3102	Cys-38 to Thr-45, Ser-69 to Asp-79, Leu-81 to Gly-89, Pro-97 to Leu-103.		H0208: 1, H0024: 1, H0038: 1, L0776: 1, H0658: 1, H0521: 1 and H0665: 1.			
HLYAE20	1060967	928	801 - 1259	3103	Pro-10 to Arg-15, Gly-45 to Trp-57, Gly-77 to Pro-88.					
HKZAR86	1060972	929	1 - 1302	3104	Gln-1 to Arg-14, Leu-21 to Arg-32, Cys-44 to Cys-57.		L0771: 9, H0436: 6, H0494: 4, L0761: 4, L0789: 4, L0743: 4, H0656: 3, H0581: 3, L0764: 3, H0543: 3, H0580: 2, H0427: 2, H0538: 2, L0769: 2, L0806: 2, H0699: 2, H0689: 2, H0521: 2, L0755: 2, H0583: 1, H0341: 1, H0483: 1, H0662: 1, H0550: 1, S0222: 1, H0392: 1, H0486: 1, S0250: 1, H0488: 1, S0426: 1, L0800: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1,			

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HAOTX62	1061036	930	65 - 298	3105					
HOCQG58	1061180	931	3034 - 251	3106		Glu-22 to Ser-36, Gly-43 to Asp-74, Leu-83 to Leu-90, Glu-97 to Thr-106, Pro-135 to Arg-140, Lys-188 to Arg-201, Asp-330 to Asp- 336, Thr-371 to Ser-381, Asp-413 to Trp-418, Tyr-454 to Lys-461, Gly-474 to Cys-479, Gly-511 to Asp-516, Glu-564 to Thr-573, Phe-640 to Ala-662, Arg-700 to Leu-706, Ala-737 to Tyr-743, Pro-800 to Gln-806, Ala-876 to Thr-881, Arg-921 to Leu-928.	H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2, L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1,		

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HOFNH33	1061185	932	131 - 925	3107	Asp-78 to Gly-84, Glu-112 to Cys-117, Glu-202 to Val-207, Ser-219 to Ser-234, Pro-237 to Lys-252.		H0415: 2			
HAJAQ63	1061238	933	966 - 2816	3108	Met-29 to Glu-38, Ser-40 to Ala-48.		H0436: 65, H0521: 11, S0422: 9, L0439: 9, S0360: 8, L0754: 8, L0471: 7, H0581: 6, L0521: 6, H0520: 5, H0519: 5, H0171: 4, S0358: 4, H0580: 4, S0003: 4, H0529: 4, L0520: 4, L0666: 4, L0663: 4, L0664: 4, H0144: 4, H0547: 4, H0539: 4, L0581: 4, L0362: 4, H0624: 3, H0657: 3, S0444: 3, L0717: 3, S0474: 3, S0049: 3, H0052: 3, H0428: 3, H0553: 3, H0090: 3, H0616: 3, H0413: 3, L0774: 3,			

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HVVBK70	1061258	934	650 - 1276	3109	Arg-17 to Gly-46, Leu-84 to Pro-133, Glu-137 to Pro-149, Glu-179 to Gly-185, Arg-188 to Tyr-198.	L0773: 1, L0648: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0775: 1, L0378: 1, L0806: 1, L0654: 1, L0526: 1, L0519: 1, L0789: 1, L0792: 1, L0793: 1, H0699: 1, L0565: 1, L0438: 1, H0435: 1, S0406: 1, S0392: 1, H0478: 1, L0742: 1, L0740: 1, L0747: 1, L0750: 1, L0753: 1, L0731: 1, S0434: 1, S0436: 1, L0590: 1, L0592: 1, L0604: 1, L0366: 1, H0668: 1, H0653: 1, H0667: 1, H0422: 1 and S0412: 1.		
						L0731: 9, H0424: 6, L0754: 6, L0758: 5, L0662: 4, L0748: 4, L0747: 4, L0749: 4, L0623: 3, S0050: 3, H0038: 3, H0616: 3, L0659: 3, L0485: 3, H0685: 2, H0255: 2, H0642: 2, H0031: 2, L0657: 2, L0439: 2		

HVVB82	1061332	935	3 - 500	3110	Arg-17 to Gln-23, Asn-63 to Gln-71.	L0779: 2, L0599: 2, L0604: 2, H0171: 1, H0657: 1, H0671: 1, S0360: 1, S0408: 1, S0045: 1, H0587: 1, H0333: 1, L0622: 1, H0486: 1, H0013: 1, H0599: 1, H0545: 1, H0594: 1, H0266: 1, H0687: 1, H0688: 1, H0213: 1, H0553: 1, H0135: 1, H0090: 1, H0059: 1, H0494: 1, H0646: 1, H0529: 1, L0763: 1, L0639: 1, L0772: 1, L0764: 1, L0375: 1, L0806: 1, L0509: 1, L0783: 1, L0532: 1, S0428: 1, H0144: 1, H0658: 1, H0672: 1, S0330: 1, S0406: 1, S0206: 1, L0756: 1, L0593: 1, L0361: 1 and H0668: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380.
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HWLLG38	1061388	936	99 - 692	3111	Gly-7 to Arg-14, Phe-77 to Gly-83, Ser-98 to Leu-106, Asp-114 to Tyr-120, Met-143 to Lys-156, Met-161 to Gly-167, Ala-178 to Ser-183.	H0622: 2, L0763: 2, L0776: 2, L0759: 2, S0358: 1, H0370: 1, H0486: 1, H0013: 1, H0428: 1, H0035: 1, H0591: 1, L0783: 1, H0144: 1, S0330: 1, L0439: 1 and L0756: 1.				
HTPCH84	1061466	937	1 - 978	3112	Pro-2 to Trp-11, Arg-73 to Glu-79, Pro-95 to Thr-103, Pro-106 to Phe-115, Asn-117 to Tyr-124, Thr-142 to Cys-149, Thr-177 to Pro-189,	AR052: 108, AR053: 84, AR096: 60, AR039: 52, AR061: 15, AR055: 14, AR089: 11, AR060: 8, AR033: 7, AR104: 6 H0494: 4, H0593: 3,				

					Ser-196 to Cys-208, Gly-219 to Asp-224, Pro-278 to Gly-283.			S0356: 1, S0045: 1, H0485: 1, H0486: 1, H0052: 1, H0545: 1, H0179: 1, H0039: 1 and S0148: 1.		
HWLHJ68	1061521	938	139 - 471	3113	Cys-17 to Lys-31.			AR052: 8, AR053: 6, AR039: 5, AR096: 5, AR033: 3, AR089: 3, AR104: 3, AR060: 3, AR055: 3, AR061: 2 H0651: 709, L0766: 5, L0754: 5, L0756: 3, L0803: 2, L0779: 2, L0759: 2, S0354: 1, H0643: 1, H0013: 1, H0194: 1, H0545: 1, H0373: 1, H0252: 1, H0615: 1, H0316: 1, H0040: 1, H0641: 1, H0647: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0649: 1, L0804: 1, L0527: 1, L0656: 1, H0144: 1, H0702: 1, H0547: 1, H0555: 1, H0436: 1, S0028: 1, L0746: 1, L0750: 1, L0777: 1, L0780: 1, L0752: 1 and L0686: 1.		

HLGDA34	1061543	939	2 - 193	3114	Pro-27 to His-34.	S0428: 2, H0610: 1, H0179: 1, H0271: 1 and S0052: 1.		
HAICB08	1061629	940	3 - 338	3115	Glu-7 to Gly-12, Ala-71 to Leu-79, Ser-98 to Asp-103.	S0132: 1		
HVVAW60	1061694	941	208 - 741	3116	Pro-18 to Asn-25, Ala-44 to Asn-50, Arg-56 to Lys-64, Gly-76 to Gly-85, Lys-92 to Leu-98, Gly-116 to Gly-121, Gln-132 to His-138, Thr-159 to Asp-167.	L0794: 5, L0803: 3, L0518: 3, L0748: 3, H0556: 2, S0360: 2, S0422: 2, L0783: 2, L0809: 2, L0438: 2, L0740: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0757: 2, L0588: 2, L0594: 2, H0171: 1, T0002: 1, H0657: 1, H0638: 1, S0132: 1, H0369: 1, H0441: 1, H0431: 1, H0497: 1, S0280: 1, S0010: 1, H0318: 1, H0263: 1, H0544: 1, T0003: 1, H0373: 1, H0201: 1, H0032: 1, H0673: 1, H0068: 1, H0038: 1, H0551: 1, S0426: 1, L0640: 1, L0763: 1, L0638: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1,		

HPDVB50	1061708	942	3 - 206	3117	Cys-4 to Asp-16, Lys-36 to Tyr-41, Pro-48 to Asp-68.	L0806: 1, L0805: 1, L0787: 1, H0660: 1, H0672: 1, S0328: 1, S3014: 1, L0749: 1, L0759: 1, H0445: 1, L0581: 1 and H0216: 1. L0748: 26, L0754: 20, L0747: 9, L0756: 8, L0777: 8, L0752: 8, L0744: 6, L0740: 6, L0757: 6, H0046: 5, H0553: 5, L0766: 5, L0803: 5, L0775: 5, L0755: 5, L0759: 5, S0418: 4, S0010: 4, L0662: 4, L0794: 4, L0774: 4, L0806: 4, L0438: 4, L0731: 4, L0758: 4, S0212: 3, S0358: 3, H0632: 3, H0635: 3, H0156: 3, H0052: 3, S0003: 3, S0152: 3, H0436: 3, S0037: 3, S0028: 3, L0750: 3, L0615: 2, H0556: 2, S0420: 2, H0619: 2, H0559: 2, H0013: 2, H0575: 2, H0421: 2, H0251: 2, H0545: 2, H0687: 2,	4q26	147680, 189800, 600919, 601542	
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HAZAY40	1061765	943	3 - 1631	3118	<p>Ser-24 to Lys-55, Glu-67 to Ala-72, Leu-74 to Pro-88, Lys-104 to Tyr-119, Ile-121 to Pro-132, Ser-138 to Glu-148, Asp-158 to Pro-167, Glu-177 to Asp-203, Ser-208 to Gln-218, Pro-221 to Pro-227, Gln-229 to Pro-236, Ser-246 to Asn-254, Pro-268 to Thr-279, Arg-281 to Thr-288, Pro-295 to Asp-301, Val-305 to Val-315, Ala-318 to Asn-344, Glu-351 to Pro-366, Ala-415 to Gly-424, Val-470 to Ser-475, Leu-480 to Gly-485, Pro-511 to Cys-522.</p>	<p>H0543: 1, H0423: 1, S0424: 1, S0452: 1, S0460: 1 and S0384: 1.</p> <p>L0439: 10, H0013: 7, L0438: 4, L0758: 4, L0599: 3, H0171: 2, H0632: 2, S0388: 2, T0010: 2, S0250: 2, H0553: 2, H0644: 2, L0662: 2, L0754: 2, L0747: 2, L0749: 2, L0779: 2, L0777: 2, L0591: 2, S0376: 1, S0045: 1, S0222: 1, H0461: 1, L0623: 1, H0244: 1, H0427: 1, S0280: 1, H0575: 1, H0036: 1, S0346: 1, H0327: 1, H0024: 1, H0051: 1, S0051: 1, H0039: 1, T0006: 1, H0383: 1, H0316: 1, S0036: 1, H0038: 1, H0268: 1, L0351: 1, H0280: 1, H0494: 1, L0769: 1, L0637: 1, L0646: 1, L0768: 1, L0649: 1, L0650: 1, L0805: 1, L0776: 1, L0659: 1, L0783: 1.</p>		
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HACMZ51	1061766	944	61 - 1617	3119	Ala-38 to Thr-45, Ser-70 to Asp-77, Ser-85 to Asp-90, Asp-139 to Gly-145, Ile-207 to Asp-213, Arg-229 to Met-234, Gly-259 to Ser-264, Ile-281 to Ser-288, Asp-337 to Leu-343, Gln-369 to Ile-376, Gly-429 to Ser-440, Gln-448 to Val-456, Gln-461 to Thr-474.	H0144: 1, H0690: 1, H0659: 1, H0660: 1, H0648: 1, S0330: 1, H0539: 1, S0037: 1, L0731: 1, L0608: 1, L0595: 1 and L0366: 1. L0777: 21, L0439: 18, H0052: 15, S0010: 12, H0013: 11, L0770: 11, L0749: 11, H0144: 10, L0748: 10, L0754: 10, L0747: 10, H0521: 9, S0222: 8, S0051: 8, S0036: 8, L0659: 8, L0740: 8, L0752: 8, L0758: 8, L0595: 8, S0278: 7, S0440: 7, L0744: 7, L0592: 7, H0457: 6, H0623: 6, L0646: 6, H0547: 6, S0152: 6, L0601: 6, H0575: 5, S0049: 5, H0046: 5, L0471: 5, H0551: 5, L0664: 5, L0665: 5, H0520: 5, S3014: 5, S0260: 5, L0599: 5, H0556: 4, S6024: 4, S0418: 4, S0354: 4, S0360: 4, S0388: 4, H0615: 4		
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HUXAL63	1061790	945	2 - 1300	3120	Thr-6 to Leu-24, Gly-87 to Ala-92, Ser-103 to Ser-118, Asp-127 to Asn-135, Gln-141 to Phe-147, Thr-149 to Arg-159, Phe-330 to Ala-338, Pro-390 to Thr-398.	S0011: 1, S0026: 1, S0192: 1, H0423: 1 and H0352: 1. L0794: 6, L0766: 6, L0758: 6, L0665: 4, L0439: 4, L0779: 4, H0590: 3, L0598: 3, L0763: 3, L0666: 3, H0648: 3, L0754: 3, L0362: 3, H0506: 3, H0657: 2, H0661: 2, S0438: 2, L0646: 2, L0803: 2, L0375: 2, L0806: 2, L0809: 2, L0438: 2, L0744: 2, L0740: 2, L0747: 2, L0731: 2, S0434: 2, L0589: 2, H0713: 1, S0114: 1, H0583: 1, H0255: 1, H0669: 1, H0663: 1, S0222: 1, H0497: 1, L0021: 1, L0022: 1, H0036: 1, H0052: 1, L0163: 1, H0239: 1, H0179: 1, H0615: 1, H0553: 1, H0163: 1, H0038: 1, H0100: 1, S0440: 1, S0422: 1, S0426: 1, UNKWN: 1, I5575: 1.		
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HLCLX57	1061886	946	3 - 953	3121	Lys-20 to Glu-27.	L0644: 1, L0764: 1, L0662: 1, L0651: 1, L0653: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0783: 1, L0793: 1, L0664: 1, S0374: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, S0454: 1, S0406: 1, S0028: 1, L0750: 1, L0752: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1 and L0597: 1.	14q24	107970, 115650, 182600, 602091
						S0126: 9, H0622: 6, L0777: 5, S0250: 4, H0551: 4, S0045: 3, L0659: 3, L0809: 3, L0565: 3, L0757: 3, S0196: 3, S0212: 2, S0046: 2, H0619: 2, H0575: 2, H0591: 2, L0375: 2, L0805: 2, L0665: 2, L0743: 2, T0049: 1, S0420: 1, S0356: 1, S0360: 1, H0437: 1, H0586: 1, H0486: 1, H0013: 1, H0156: 1, L0021: 1, H0042: 1, H0618: 1,		

								H0421: 1, H0309: 1, H0545: 1, H0620: 1, H0024: 1, H0028: 1, S0003: 1, H0628: 1, H0090: 1, H0040: 1, H0269: 1, H0412: 1, H0413: 1, S0210: 1, L0763: 1, L0794: 1, L0804: 1, L0776: 1, L0657: 1, H0690: 1, H0658: 1, H0670: 1, H0660: 1, H0648: 1, S0378: 1, H0696: 1, S0406: 1, S0118: 1, S0037: 1, S0027: 1, S0028: 1, L0744: 1, L0779: 1, L0758: 1 and S0011: 1.		
HMALF63	1061935	947	318 - 1130	3122	Gly-13 to Arg-19, Glu-28 to Glu-64, Glu-81 to Asp-88, Leu-103 to Asn-109, Ile-132 to Gln-144, Glu-148 to Leu-157, Met-188 to Tyr-193, Ser-223 to Thr-230.	L0439: 48, H0013: 25, H0521: 21, S0152: 17, H0090: 13, S0010: 9, S0126: 9, H0543: 9, H0553: 8, H0591: 8, H0144: 8, S0192: 8, H0556: 7, H0038: 7, H0551: 7, H0494: 7, S0240: 7, L0740: 7, L0758: 7, S0256: 6, S0132: 6, S0474: 6, L0666: 6, L0596: 6,	2p25.2- p25.1			

L0595: 6, H0667: 6, S0414: 5, H0575: 5, H0581: 5, L0483: 5, H0641: 5, L0764: 5, L0438: 5, H0519: 5, L0751: 5, L0747: 5, L0731: 5, L0757: 5, H0661: 4, H0662: 4, S0354: 4, S0376: 4, S0046: 4, S0222: 4, H0052: 4, H0266: 4, S0214: 4, H0031: 4, H0040: 4, L0662: 4, H0520: 4, H0539: 4, H0522: 4, S0206: 4, L0748: 4, L0754: 4, H0542: 4, S0134: 3, H0657: 3, S0358: 3, H0580: 3, H0586: 3, H0009: 3, H0050: 3, L0471: 3, H0201: 3, H0039: 3, H0644: 3, H0032: 3, H0598: 3, H0616: 3, S0142: 3, S0344: 3, L0773: 3, L0794: 3, L0649: 3, L0659: 3, L0663: 3, H0435: 3, H0658: 3, H0660: 3, S0330: 3, S0270: 3, L0752: 3,					
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				L0591: 3, L0592: 3, L0593: 3, H0423: 3, H0624: 2, S0218: 2, H0341: 2, H0663: 2, S0356: 2, S0278: 2, H0587: 2, H0497: 2, H0574: 2, H0485: 2, H0486: 2, T0115: 2, H0046: 2, H0014: 2, S6028: 2, S0003: 2, H0615: 2, H0622: 2, T0023: 2, H0316: 2, S0036: 2, H0135: 2, H0264: 2, H0623: 2, S0150: 2, H0529: 2, L0775: 2, L0806: 2, L0783: 2, L0809: 2, L0665: 2, L0602: 2, H0518: 2, L0750: 2, H0445: 2, L0599: 2, L0608: 2, L0594: 2, L0366: 2, S0011: 2, H0506: 2, H0170: 1, S0258: 1, T0002: 1, S0040: 1, H0583: 1, H0656: 1, S0116: 1, S0212: 1, S0035: 1, S0400: 1, H0346: 1, H0669: 1, H0671: 1, S0418: 1, S0420: 1.
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					S0360: 1, H0675: 1, S0045: 1, H0393: 1, H0437: 1, S6014: 1, H0370: 1, H0403: 1, H0438: 1, L0586: 1, T0109: 1, H0635: 1, H0427: 1, H0156: 1, H0042: 1, H0590: 1, H0004: 1, H0318: 1, S0049: 1, T0110: 1, H0544: 1, H0457: 1, N0006: 1, H0562: 1, H0024: 1, H0373: 1, L0163: 1, S0388: 1, T0010: 1, H0083: 1, H0630: 1, H0179: 1, H0188: 1, H0288: 1, S0250: 1, H0252: 1, T0006: 1, H0628: 1, L0455: 1, L0456: 1, H0634: 1, H0268: 1, H0413: 1, T0004: 1, H0100: 1, L0351: 1, L0435: 1, L0370: 1, T0041: 1, H0560: 1, H0561: 1, S0382: 1, S0450: 1, H0509: 1, H0207: 1, H0633: 1, H0647: 1, S0144: 1, S0208: 1, S0422: 1
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HACMR36	1062057	948	1 - 1515	3123	Gly-20 to Gly-25, Leu-47 to Pro-56, Gly-63 to Glu-68, Glu-87 to Ala-99.	L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0646: 1, L0521: 1, L0768: 1, L0774: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0655: 1, L0657: 1, L0526: 1, L0664: 1, S0428: 1, S0374: 1, L0352: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0414: 1, H0659: 1, H0670: 1, H0672: 1, H0651: 1, S0328: 1, S0378: 1, S0380: 1, H0134: 1, H0555: 1, H0436: 1, H0478: 1, H0627: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, L0759: 1, L0684: 1, H0668: 1, H0665: 1, H0136: 1 and H0677: 1.		
						L0717: 3, H0618: 2, H0617: 2, L5566: 2, L0649: 2, L0666: 2, H0685: 1, H0716: 1, H0306: 1, S0360: 1, S0045: 1, S0222: 1, H0370: 1, H0392: 1.		

						H0427: 1, H0622: 1, L0640: 1, L0763: 1, L0637: 1, L5565: 1, L0373: 1, L0641: 1, L0648: 1, L0364: 1, L0766: 1, L0663: 1, L0665: 1, H0690: 1, L0748: 1, L0779: 1, L0599: 1 and L0595: 1.			
HAOSM08	1062079	949	80 - 2338	3124		L0794: 13, L0803: 9, H0013: 7, L0438: 6, L0758: 6, T0010: 5, L0439: 5, L0591: 5, H0413: 4, H0144: 4, L0742: 4, L0751: 4, L0731: 4, S0007: 3, H0038: 3, H0494: 3, L0755: 3, L0601: 3, H0170: 2, H0686: 2, S0418: 2, S0408: 2, S0046: 2, H0619: 2, H0050: 2, S6028: 2, H0268: 2, L0598: 2, L0770: 2, L0800: 2, L0764: 2, L0659: 2, L0666: 2, L0663: 2, L0665: 2, H0547: 2, H0658: 2, S0152: 2, L0741: 2, L0754: 2, L0747: 2, L0750: 2,	5		

970

HTEFM89	1062084	950	380 - 1234	3125	Ala-18 to His-32, Tyr-51 to Phe-56, Asn-100 to Arg-106, His-140 to Gly-153, Ser-167 to Gly-193, Ser-205 to Asp-214, Tyr-237 to Thr-244, Asp-268 to Gln-274.	S0242: 1 and S0276: 1. H0038: 4, L0758: 2, S0040: 1, H0125: 1, S0420: 1, H0622: 1, H0634: 1, H0616: 1, H0623: 1, T0042: 1 and H0560: 1.		
HCHAK72	1062123	951	2 - 1183	3126	Pro-18 to Thr-25, Ser-36 to Tyr-45, Met-68 to Tyr-77, Gly-148 to Ser-154, Ser-234 to Gly-242, Asn-267 to Asp- 274, Cys-337 to Gly-342, Met-388 to Thr-394.	AR039: 25, AR089: 23, AR096: 18, AR053: 16, AR060: 15, AR033: 14, AR055: 10, AR104: 9, AR061: 7 L0766: 3, S0356: 2, S0222: 2, H0266: 2, H0616: 2, S0422: 2, L0794: 2, L0655: 2, L0664: 2, H0672: 2, L0777: 2, L0731: 2, H0422: 2, H0171: 1, H0657: 1, S0116: 1, H0341: 1, H0483: 1, H0449: 1, S0376: 1, S0045: 1, H0587: 1, H0497: 1, H0421: 1, H0327: 1, H0057: 1, H0014: 1, H0375: 1, S6028: 1, S0003: 1, S0214: 1, H0328: 1,		

HPAME12	1062139	952	2 - 1654	3127	<p>Phe-16 to Arg-24, Pro-31 to Thr-41, Leu-50 to Gly-63, Leu-132 to Asp-138, Gln-152 to Val-160, Gln-178 to Lys-188, Leu-196 to Glu-205, Pro-207 to Lys-213, Gly-221 to Ala-228, Glu-239 to Phe-245, Asp-257 to Ser-264, Ala-301 to Tyr-306, Phe-327 to Trp-334, Lys-371 to Lys-384, Glu-419 to Ala-426, Ile-447 to Phe-454, Val-475 to Thr-483.</p>	<p>H0644: 1, H0032: 1, H0090: 1, H0038: 1, H0087: 1, H0264: 1, H0268: 1, H0529: 1, L0762: 1, L0638: 1, L0771: 1, L0521: 1, L0803: 1, L0657: 1, L0659: 1, L0783: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, S0176: 1, S0406: 1, L0439: 1, L0779: 1 and L0758: 1.</p>		
					<p>H0422: 4, S0222: 3, L0775: 3, L0754: 3, H0171: 2, H0013: 2, H0635: 2, H0024: 2, L0493: 2, L0518: 2, L0438: 2, H0522: 2, L0740: 2, L0756: 2, L0755: 2, L0731: 2, L0757: 2, S0260: 2, H0170: 1, S0402: 1, S0376: 1, H0580: 1, H0574: 1, H0486: 1, L0021: 1, H0098: 1, H0036: 1, H0545: 1, S0048: 1, H0622: 1, H0031: 1, H0644: 1, H0032: 1, H0598: 1.</p>			10

					Leu-516 to Gln-522, Glu-528 to Asn-537.	S0036: 1, H0163: 1, H0591: 1, H0494: 1, H0641: 1, L0762: 1, L0646: 1, L0662: 1, L0794: 1, L0804: 1, L0783: 1, L0809: 1, L0666: 1, H0144: 1, S0374: 1, H0547: 1, H0689: 1, H0682: 1, S0328: 1, H0518: 1, S0152: 1, S3014: 1, S0032: 1, L0744: 1, L0747: 1, L0750: 1, L0777: 1, H0595: 1, L0599: 1, H0667: 1 and H0423: 1.			
HPCQK37	1062260	953	3 - 830	3128	Ser-93 to Pro-99, Asn-214 to Gly-220, Thr-255 to Ala-268.	S0136: 47, L0769: 10, L0439: 7, L0750: 7, H0620: 5, L0776: 5, H0519: 5, L0740: 5, L0752: 5, H0341: 4, H0545: 4, S0440: 4, L0805: 4, L0509: 4, L0809: 4, L0666: 4, L0748: 4, S0436: 4, H0624: 3, H0265: 3, H0556: 3, S0418: 3, H0393: 3, L0717: 3, H0266: 3, S0422: 3, L0764: 3, L0659: 3,			

	H0696: 3, L0755: 3, L0731: 3, S0434: 3, S0026: 3, S0356: 2, S0358: 2, S0360: 2, S0045: 2, H0587: 2, H0574: 2, T0060: 2, S0010: 2, H0046: 2, H0510: 2, H0032: 2, H0673: 2, H0169: 2, H0674: 2, H0135: 2, H0038: 2, H0413: 2, H0646: 2, L0646: 2, L0766: 2, L0803: 2, L5622: 2, L0665: 2, S0374: 2, H0659: 2, H0648: 2, S0328: 2, S0378: 2, S0380: 2, S3014: 2, L0756: 2, L0777: 2, L0758: 2, L0588: 2, L0589: 2, L0592: 2, L0594: 2, L0603: 2, H0543: 2, H0171: 1, S0040: 1, H0717: 1, H0295: 1, T0049: 1, L0002: 1, H0657: 1, H0346: 1, H0255: 1, H0664: 1, H0305: 1, H0589: 1, S0420: 1, S0442: 1, S0376: 1, S0444: 1.
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H0675: 1, S0410: 1, H0730: 1, S0046: 1, S0132: 1, H0592: 1, H0586: 1, H0333: 1, H0642: 1, H0331: 1, H0632: 1, H0486: 1, H0013: 1, H0427: 1, L0021: 1, H0575: 1, H0590: 1, S0182: 1, H0085: 1, H0596: 1, T0110: 1, H0546: 1, L0157: 1, H0572: 1, H0571: 1, H0024: 1, L0695: 1, H0373: 1, L0163: 1, S6028: 1, S0003: 1, H0252: 1, H0328: 1, H0622: 1, T0006: 1, H0031: 1, H0553: 1, H0628: 1, H0166: 1, S0364: 1, L0455: 1, H0124: 1, H0598: 1, H0400: 1, H0163: 1, H0090: 1, H0616: 1, H0551: 1, T0067: 1, H0433: 1, H0100: 1, T0041: 1, H0625: 1, H0561: 1, S0448: 1, S0450: 1, S0438: 1, H0509: 1, H0132: 1, H0647: 1					
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HCE4F10	1062309	954	977 - 3	3129	Glu-27 to Thr-34, His-253 to Tyr-281, Glu-290 to Asp-295.	H0649: 1, S0208: 1, H0529: 1, L0770: 1, L0637: 1, L0772: 1, L0372: 1, L0800: 1, L0374: 1, L0662: 1, L0649: 1, L0388: 1, L0774: 1, L0775: 1, L0375: 1, L0653: 1, L0628: 1, L0513: 1, L0526: 1, L0518: 1, L0382: 1, L0663: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0666: 1, S0330: 1, S0044: 1, S0406: 1, H0436: 1, H0479: 1, S0037: 1, S0206: 1, L0747: 1, L0780: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, H0707: 1, L0485: 1, L0608: 1, L0595: 1, H0667: 1, L0097: 1, S0196: 1 and S0446: 1.		
						H0052: 3, H0050: 2, H0650: 1, H0657: 1, S0212: 1, S0358: 1, S0045: 1 H0586: 1		

							H0575: 1, H0046: 1, H0292: 1, H0328: 1, H0622: 1, H0135: 1, L0766: 1, S0374: 1, H0648: 1, H0539: 1, H0521: 1, L0750: 1, L0591: 1, H0542: 1 and S0460: 1.			
HBCBE63	1062328	955	32 - 790	3130	Ser-4 to Gln-21, His-33 to Pro-38, Arg-80 to Ser-87, Lys-133 to Tyr-139, Gln-162 to Phe-168, Ala-173 to Lys-179, Glu-198 to Glu-204, Ala-212 to Asn-218, Ser-238 to Arg-245.		S0358: 1, H0370: 1, H0270: 1, H0122: 1, H0253: 1, H0545: 1, H0046: 1, H0015: 1, L0669: 1, H0617: 1, H0032: 1, H0038: 1, H0616: 1, H0658: 1, S0436: 1 and L0596: 1.			
HSSJO19	1062346	956	409 - 248	3131	Arg-1 to Pro-12, Leu-29 to Gln-41.		L0439: 5, L0764: 2, H0660: 2, L0749: 2, S0031: 2, L0591: 2, H0486: 1, L0471: 1, H0424: 1, H0135: 1, L0763: 1, L0769: 1, L0639: 1, L0771: 1, L0375: 1, L0784: 1, L0776: 1, H0478: 1 and L0747: 1.			
HE8NQ23	1062369	957	574 - 1419	3132			AR060: 2, AR061: 2, AR055: 1, AR096: 1, AR033: 1, AR039: 1,			

						AR089: 0, AR104: 0, AR053: 0 L0665: 12, L0666: 5, L0794: 4, L0664: 4, L0759: 4, H0574: 3, L0657: 3, H0031: 2, H0553: 2, H0624: 1, H0632: 1, H0013: 1, H0328: 1, L0598: 1, L0369: 1, L0645: 1, L0662: 1, H0144: 1, H0660: 1 and S0406: 1.		
HTELJ95	1062431	958	95 - 949	3133	Ala-24 to Glu-29, Glu-91 to Arg-110, Arg-115 to Trp-124, Ser-126 to Asp-140, Tyr-156 to Phe-161, Lys-209 to Asp-215, Gly-224 to Thr-230, Pro-254 to Phe-261, Thr-266 to Asp-285.	L0766: 5, L0748: 5, L0362: 4, L0755: 3, H0170: 2, H0265: 2, H0328: 2, H0494: 2, L0776: 2, L0747: 2, L0750: 2, L0731: 2, L0758: 2, H0650: 1, H0657: 1, S0001: 1, H0638: 1, S0418: 1, H0329: 1, S0007: 1, L0717: 1, T0039: 1, L0021: 1, H0097: 1, H0544: 1, L0163: 1, S0388: 1, S0051: 1, H0266: 1, S0003: 1, S0214: 1, H0615: 1, H0616: 1, H0269: 1, H0623: 1, T0041: 1,		

						T0042: 1, H0538: 1, S0422: 1, L0763: 1, L0794: 1, L0803: 1, L0375: 1, H0144: 1, H0659: 1, S0330: 1, L0756: 1, L0780: 1, L0752: 1, L0588: 1, L0592: 1, H0668: 1, H0422: 1, L0697: 1 and S0384: 1.		
HTPCP50	1062435	959	3 - 2138	3134	Pro-9 to Lys-24, Ser-39 to Lys-46, Asp-80 to Asn-86, Gln-89 to Ser-103, Phe-112 to Thr-123, Gln-260 to Ser-272, Asp-283 to His-289, Pro-341 to Glu-351, Met-362 to Thr-368, Arg-382 to Arg-389, Asn-396 to Gly-410, Tyr-415 to His-427, Ile-477 to Lys-486, Tyr-575 to Thr-580, Lys-692 to Leu-700.	AR096: 4, AR055: 4, AR053: 3, AR089: 2, AR033: 2, AR052: 2, AR061: 2, AR060: 2, AR104: 2, AR039: 1 L0747: 5, H0623: 4, S0212: 3, S0045: 3, H0586: 3, H0427: 3, S0028: 3, L0439: 3, L0749: 3, L0599: 3, L0415: 2, S0046: 2, H0553: 2, H0412: 2, L0662: 2, L0659: 2, S0146: 2, H0713: 1, H0716: 1, T0049: 1, H0662: 1, S0356: 1, H0722: 1, H0486: 1, S0280: 1, H0575: 1, H0024: 1, H0375: 1, H0266: 1, H0428: 1.		

HKGBU67	1062496	960	779 - 201	3135	Gly-1 to His-6, Thr-55 to Gln-61, Cys-63 to Asp-70, Gly-132 to Gly-137, Lys-146 to Gly-152, Pro-174 to Lys-182.	H0039: 1, T0006: 1, H0032: 1, H0090: 1, H0268: 1, H0413: 1, H0509: 1, L0375: 1, L0789: 1, L0666: 1, S0126: 1, H0670: 1, H0539: 1, H0521: 1, S0032: 1, L0754: 1, L0779: 1, L0759: 1, H0444: 1 and S0434: 1.		
						L0777: 6, S0358: 3, L0372: 3, L0750: 3, L0755: 3, S0422: 2, L0766: 2, L0663: 2, S0152: 2, L0779: 2, L0588: 2, L0605: 2, H0685: 1, H0341: 1, H0255: 1, S0376: 1, S0410: 1, H0592: 1, H0497: 1, H0009: 1, L0471: 1, H0373: 1, S0214: 1, H0615: 1, H0090: 1, H0494: 1, H0509: 1, H0538: 1, L0769: 1, L0761: 1, L0646: 1, L0764: 1, L0771: 1, L0773: 1, L0794: 1, L0774: 1, L0775: 1, L0655: 1, L0789: 1, L0665: 1.	11	

								H0697: 1, H0520: 1, H0435: 1, S0044: 1, H0555: 1, L0747: 1, L0749: 1, L0753: 1, L0759: 1, H0445: 1, L0581: 1, H0423: 1 and H0712: 1.			
HFKIT82	1062544	961	2 - 1663	3136		Pro-10 to Val-15, Ala-42 to Lys-48, Asn-99 to Glu-104, Ile-114 to Gln-119, Asp-130 to Gly-137, Leu-167 to Tyr-175, Pro-187 to Glu-192, Arg-219 to Pro-224, Ala-233 to Thr-240.	AR039: 4, AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR053: 2, AR104: 2, AR061: 1, AR033: 1 L0439: 6, H0620: 4, L0758: 2, S0040: 1, H0661: 1, H0619: 1, H0549: 1, H0587: 1, H0013: 1, L0021: 1, H0230: 1, H0373: 1, H0135: 1, L0770: 1, L0769: 1, L0776: 1, L0659: 1, L0783: 1, H0144: 1, H0519: 1, H0593: 1, H0682: 1, H0659: 1, L0751: 1, L0753: 1 and L0759: 1.				
HE2LW42	1062574	962	1300 - 1079	3137			H0624: 5, L0748: 4, S0222: 3, H0441: 2, H0013: 2, H0144: 2, L0745: 2, H0170: 1, H0171: 1, S0007: 1,				

HOGCE44	1062586	963	141 - 2561	3138	Glu-46 to Ser-59, Asn-85 to Ser-98.	H0156: 1, L0471: 1, H0051: 1, H0604: 1, H0135: 1, S0386: 1, L0521: 1, L0776: 1 and L0754: 1. L0743: 7, L0731: 7, H0024: 5, H0264: 5, H0547: 5, L0439: 5, L0756: 5, L0764: 4, L0777: 4, L0752: 4, H0622: 3, H0163: 3, S0386: 3, H0529: 3, L0769: 3, L0809: 3, H0144: 3, H0435: 3, L0748: 3, L0747: 3, S0412: 3, S0040: 2, S0116: 2, H0341: 2, S0358: 2, S0444: 2, S0360: 2, H0549: 2, H0013: 2, H0036: 2, S0010: 2, H0318: 2, S0474: 2, H0050: 2, H0083: 2, H0266: 2, H0615: 2, T0006: 2, H0031: 2, H0644: 2, H0135: 2, S0002: 2, L0770: 2, L0771: 2, L0649: 2, L0803: 2, L0776: 2, L0438: 2, H0520: 2, H0539: 2,	20p13	192340, 234200
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HOVJJ72	1062626	964	547 - 1782	3139	His-30 to His-35.	H0100: 1, H0560: 1, S0142: 1, H0538: 1, S0422: 1, S0426: 1, L0762: 1, L0763: 1, L0638: 1, L0761: 1, L0772: 1, L0768: 1, L0794: 1, L0766: 1, L0775: 1, L0375: 1, L0655: 1, L0783: 1, L0519: 1, L0789: 1, L0791: 1, L0666: 1, L0664: 1, S0374: 1, S0126: 1, H0689: 1, H0659: 1, H0521: 1, S0176: 1, S0406: 1, H0436: 1, L0759: 1, S0031: 1, S0260: 1, S0436: 1, L0608: 1, S0011: 1, S0242: 1, S0194: 1, S0276: 1, H0542: 1 and S0460: 1.	L0777: 5, L0750: 4, L0758: 4, H0549: 2, H0550: 2, H0333: 2, H0687: 2, H0688: 2, L0809: 2, L0743: 2, H0265: 1, H0556: 1, S0358: 1, H0645: 1, H0599: 1, H0575: 1, H0618: 1, H0123: 1,	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400,
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HODBT14	1062628	965	3 - 326	3140	Gln-1 to Glu-8, Ser-17 to Asn-23, Glu-48 to Leu-54, Asn-78 to Ser-83.			H0328: 2 and H0581: 1.		
HBOEB83	1062629	966	1 - 1392	3141	Ala-1 to Ser-6, Thr-16 to Gln-23, Pro-28 to Asn-34, Glu-43 to Cys-49, Asp-95 to Gly-100.			H0328: 9, L0659: 7, L0662: 6, H0135: 4, L0750: 4, S0360: 3, H0329: 3, H0373: 3, L0375: 3, L0744: 3, H0392: 2, H0046: 2, S0364: 2, H0163: 2, H0100: 2, L0743: 2, S0356: 1, S0222: 1, H0486: 1, H0618: 1, H0439: 1, L0471: 1, S0362: 1, H0038: 1, L0520: 1, L0769: 1, L0637: 1, L0650: 1.	5q13	126060, 143200, 143200, 181510, 253200, 268800, 268800, 600354, 600354, 600354

								L0789: 1, L0664: 1, H0144: 1, H0690: 1, H0660: 1, S0028: 1, L0740: 1, L0759: 1, L0589: 1, S0242: 1 and H0352: 1.			
HODCT96	1062631	967	2 - 541	3142	Lys-1 to Glu-7, Thr-20 to Glu-35, Ser-54 to Glu-62.			AR039: 26, AR033: 17, AR104: 17, AR052: 15, AR053: 15, AR096: 14, AR060: 14, AR089: 13, AR055: 12, AR061: 7 H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2,			

	L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, S0132: 1, H0411: 1, H0550: 1, S0222: 1, H0441: 1, L0477: 1, L0021: 1, S0346: 1, T0048: 1, H0309: 1, H0009: 1, H0172: 1, L0483: 1, H0031: 1, H0628: 1, H0673: 1, H0674: 1, H0040: 1, H0551: 1, H0412: 1, T0004: 1, H0102: 1, L0351: 1, H0280: 1, H0560: 1, H0633: 1, S0344: 1, L0762: 1, L0501: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0776: 1, L0656: 1, L0783: 1, L0790: 1, L2269: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0435: 1, H0660: 1, H0672: 1,	
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HTXJE60	1062655	968	60 - 1124	3143	Asp-32 to Leu-43, Leu-47 to Arg-53, Glu-95 to Phe-102, Leu-123 to Val-130, Leu-146 to Gly-154, Asp-186 to Glu-192, Glu-246 to Ser-255, Asp-296 to Arg-302, Ser-334 to Ala-347.		S0360: 2, H0266: 2, S0330: 2, L0748: 2, H0556: 1, S0442: 1, S0358: 1, S0046: 1, L0471: 1, H0024: 1, H0634: 1, H0494: 1, H0560: 1, L0800: 1, L0803: 1, H0593: 1, H0435: 1, H0651: 1, H0521: 1, H0522: 1, S0406: 1, L0747: 1 and S0452: 1.			
HUSIQ62	1062679	969	83 - 814	3144	Thr-1 to Glu-10, Arg-20 to Leu-26, Gly-37 to Ser-49, Cys-58 to Ser-69, Lys-79 to Lys-85, Ser-88 to Glu-96, Ala-99 to Ser-135,		S0422: 8, H0710: 8, S0116: 7, L0471: 7, H0542: 7, H0580: 6, T0042: 6, H0547: 6, H0659: 6, L0748: 6, H0486: 5, H0543: 5, H0656: 4, H0341: 4,	4q31	107250, 181600, 189800, 266300	

					Ser-142 to Glu-151, Ser-169 to Lys-192, Ala-199 to Glu-244.	S0360: 4, S0440: 4, S0406: 4, L0747: 4, S0444: 3, H0318: 3, H0581: 3, H0428: 3, H0551: 3, L0667: 3, L0662: 3, L0766: 3, L0655: 3, L0666: 3, L0749: 3, L0758: 3, L0362: 3, H0668: 3, T0002: 2, H0650: 2, H0662: 2, H0393: 2, H0497: 2, H0013: 2, H0266: 2, H0412: 2, S0150: 2, H0529: 2, L0646: 2, L0375: 2, L0606: 2, H0144: 2, H0698: 2, H0521: 2, L0740: 2, L0750: 2, L0588: 2, L0605: 2, L0608: 2, S0192: 2, H0170: 1, L0615: 1, H0686: 1, H0685: 1, S0040: 1, H0663: 1, H0402: 1, H0449: 1, H0459: 1, S0418: 1, S0420: 1, S0358: 1, S0376: 1, H0369: 1, H0069: 1, L0021: 1, T0082: 1, H0421: 1, H0744: 1, H0251: 1,		
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HPCTC48	1062686	970	206 - 361	3145		Arg-1 to Gly-14, Glu-24 to Ile-34, Glu-40 to Phe-52.	H0659: 1 and L0758: 1.		
HKBAK29	1062718	971	945 - 1562	3146		Glu-16 to Ser-23, Tyr-32 to Ala-44, Leu-56 to Ala-70, Ser-85 to Thr-91, Glu-102 to Lys-108, Glu-116 to Leu-122, Leu-136 to Leu-150, Glu-165 to Leu-170, Val-183 to Asp-191.	AR096: 7, AR104: 7, AR089: 5, AR033: 4, AR060: 4, AR053: 2, AR061: 1, AR055: 0, AR039: 0 S0358: 6, L0659: 6, L0805: 3, L0655: 3, L0665: 3, H0670: 3, L0755: 3, S0026: 3, S0360: 2, S0003: 2, L0649: 2, L0774: 2, L0776: 2, L0666: 2, L0663: 2, L0777: 2, L0758: 2, H0624: 1, H0170: 1, T0002: 1, H0656: 1, H0638: 1, H0637: 1, L0717: 1, S0278: 1, S0222: 1, H0497: 1, H0642: 1, H0574: 1, H0632: 1, H0486: 1, H0156: 1, L0021: 1, H0036: 1, H0251: 1, H0046: 1, L0157: 1, L0471: 1, H0083: 1, S0214: 1,		

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HPMCX26	1062743	972	329 - 682	3147	Ser-12 to Trp-23, Tyr-25 to Tyr-32, Pro-34 to Phe-41.			L0599: 2, H0271: 1, H0031: 1 and H0623: 1.		
HFKHF51	1062785	973	3 - 1910	3148				L0747: 4, H0620: 3, S0051: 3, H0424: 3, L0749: 3, L0756: 3, L0755: 3, H0295: 2, S0300: 2, H0333: 2, H0024: 2, H0100: 2, L0794: 2, L0774: 2, H0672: 2, L0744: 2,		

									L0754: 2, L0777: 2, L0731: 2, L0759: 2, S0412: 2, S0420: 1, S0222: 1, S0005: 1, S0049: 1, H0320: 1, S0250: 1, H0213: 1, H0417: 1, H0068: 1, L0564: 1, H0494: 1, L0771: 1, L0803: 1, L0775: 1, L0382: 1, L0809: 1, L0367: 1, L0787: 1, L0791: 1, L0793: 1, S0126: 1, H0690: 1, S0380: 1, L0612: 1, S3014: 1, L0779: 1, L0757: 1, S0260: 1, L0592: 1 and L0603: 1.			
HUCPE28	1062795	974	71 - 1090	3149	Lys-16 to Gly-23, Glu-33 to Val-43, Ser-55 to Ala-67, Gln-82 to Pro-97, Thr-108 to Gln-124, Pro-151 to Glu-157, Leu-184 to Cys-194, Ala-218 to Pro-225, Pro-227 to Asp-243, Lys-304 to Ser-324.	AR096: 1, AR055: 1, AR089: 1, AR061: 0, AR060: 0, AR033: 0, AR052: 0, AR104: 0 L0766: 11, H0622: 5, H0716: 2, S0420: 2, L0769: 2, L0803: 2, L0779: 2, H0656: 1, H0484: 1, S0418: 1, S0444: 1, H0580: 1, H0730: 1, H0619: 1, H0411: 1, H0592: 1,						

HPWAH30	1062840	975	1 - 708	3150	Phe-12 to Thr-19, Thr-26 to Cys-36, Thr-45 to Lys-50, Thr-54 to Gly-65, His-81 to Lys-88, Thr-110 to Lys-116, Phe-124 to Thr-131, Thr-138 to Lys-144, Ser-156 to Thr-162, His-165 to Lys-172, Asn-181 to Thr-187, Thr-194 to Lys-200, Thr-222 to Glu-230.	H0427: 1, H0581: 1, H0052: 1, H0494: 1, L0774: 1, L0775: 1, L4501: 1, L0665: 1, S0374: 1, H0539: 1, S0404: 1, L0743: 1, L0745: 1, L0749: 1, L0777: 1, L0752: 1, S0436: 1 and L0097: 1. L0361: 2, H0170: 1, H0341: 1, H0663: 1, S0358: 1, S0045: 1, H0392: 1, H0586: 1, H0488: 1, H0509: 1, L0763: 1, L0665: 1, S0044: 1, L0779: 1 and L0593: 1.			
H6EDQ51	H6EDQ51R	976	91 - 303	3151					
HA5AU29	HA5AU29R	977	2 - 190	3152	Arg-1 to Cys-10.				
HACBX26	HACBX26R	978	2 - 124	3153					
HACMD23	HACMD23R	979	1 - 81	3154					
HACMF32	HACMF32R	980	52 - 342	3155					
HACMH54	HACMH54R	981	2 - 199	3156					
HACMH72	HACMH72R	982	2 - 478	3157				H0713: 5, H0684: 2,	

							H0685: 1, H0689: 1 and H0683: 1.			
HACMM26	HACMM26R	983	1 - 84	3158			H0685: 2, S0422: 1, L0766: 1 and L0526: 1.			
HACMM56	HACMM56R	984	221 - 451	3159						
HACMS55	HACMS55R	985	3 - 116	3160		Ser-9 to Phe-14.				
HACMX77	HACMX77R	986	3 - 419	3161		Glu-113 to Gly-118.	L0747: 25, S0358: 11, L0755: 9, L0740: 7, L0758: 7, L0775: 6, H0659: 6, L0742: 6, H0545: 5, S0406: 5, L0750: 5, L0756: 5, L0757: 5, L0362: 5, S0026: 5, H0580: 4, S0007: 4, H0413: 4, H0494: 4, S0440: 4, L0520: 4, L0769: 4, L0731: 4, H0543: 4, H0295: 3, H0341: 3, S0444: 3, H0581: 3, H0529: 3, L0770: 3, L0766: 3, L0382: 3, H0436: 3, L0744: 3, L0361: 3, H0686: 2, S0134: 2, S0218: 2, H0419: 2, H0484: 2, S0442: 2, S0360: 2, S0045: 2, H0486: 2, H0427: 2, L0021: 2, H0594: 2, T0023: 2,			

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HACMZ45	HACMZ45R	987	3 - 245	3162	Thr-11 to Gly-16, Ser-49 to Ser-55, Ile-64 to Gly-69.					
HACND54	HACND54R	988	2 - 274	3163	Gln-1 to Lys-6.		H0617: 9, H0618: 4, H0253: 4, H0545: 4, L0774: 4, L0439: 4, L0750: 4, L0766: 3, L0803: 3, L0806: 3, L0748: 3, L0747: 3, L0777: 3, L0752: 3, L0758: 3, H0685: 2, H0333: 2, H0559: 2, H0100: 2, L0644: 2, L0542: 2, L0565: 2, L0438: 2, L0587: 2, S0040: 1, S0114: 1, H0589: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1, H0580: 1, H0351: 1, H0411: 1, S0278: 1, H0549: 1, S0222: 1, H0431: 1, H0438: 1, T0109: 1, H0427: 1, S0280: 1,			

HACND56	HACND56R	989	166 - 318	3164			L0021: 1, H0599: 1, H0318: 1, H0052: 1, H0544: 1, H0046: 1, H0024: 1, H0373: 1, H0051: 1, H0071: 1, T0010: 1, H0266: 1, H0615: 1, T0006: 1, H0604: 1, H0213: 1, H0553: 1, H0124: 1, H0087: 1, H0264: 1, H0412: 1, H0059: 1, H0561: 1, H0132: 1, H0647: 1, S0208: 1, L0598: 1, L0770: 1, L0769: 1, L0646: 1, L0642: 1, L0643: 1, L0764: 1, L0768: 1, L0375: 1, L0629: 1, L0783: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0665: 1, H0547: 1, H0519: 1, H0658: 1, H0660: 1, H0651: 1, S0330: 1, S0380: 1, S0146: 1, S0406: 1, H0576: 1, H0478: 1, L0749: 1, L0780: 1, L0755: 1, S0192: 1 and H0352: 1.		
HACND56	HACND56R	989	166 - 318	3164			H0457: 4, S0474: 3,		